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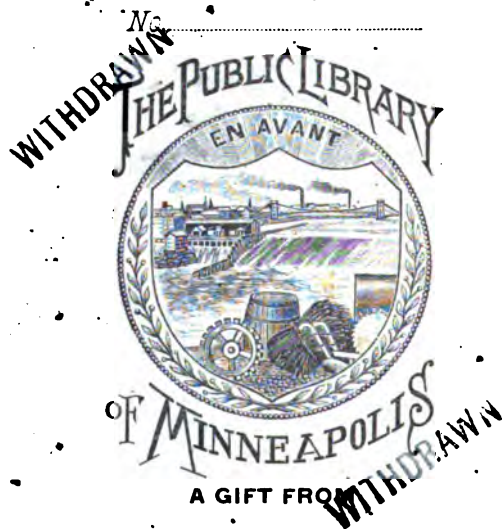
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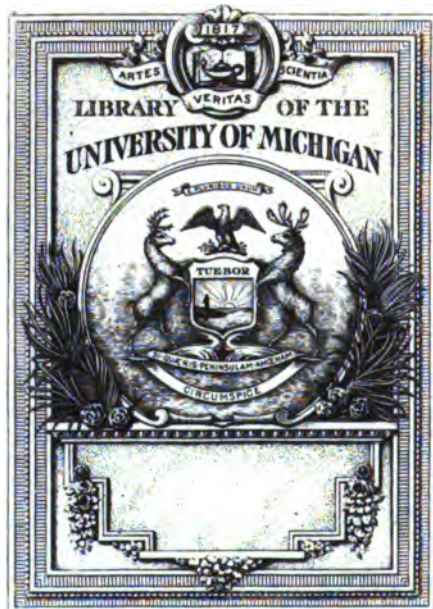
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PROVIDENCE, *R.I.*
CITY DOCUMENTS
FOR THE YEAR
1904.



The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
63 Washington Street,
1904.

1101-11

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Augustus S. Miller,
Mayor

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CITY DOCUMENT.

[No. 1.]

PROVIDENCE CITY MANUAL:

OR

ORGANIZATION

OF THE

MUNICIPAL GOVERNMENT

FOR THE YEAR

1904.

PREPARED BY

WILLIAM E. CLARKE,

CITY CLERK.



The Providence Press

SNOW & FARNHAM, CITY PRINTERS,

63 Washington Street.

1904.

CITY OF PROVIDENCE.

RESOLUTIONS OF THE CITY COUNCIL NO. 3.

[Approved January 5, 1904.]

RESOLVED, That Messrs. Higgins, Grant, Littlefield and Rawson, together with Alderman Budlong, be and they are hereby appointed a committee to wait upon His Honor Mayor Miller, and request him to furnish for publication a copy of the address delivered by him to the City Council, January 4, 1904, and to cause the same to be published in such manner as they shall deem expedient. And also

RESOLVED, That the above named committee be and they are hereby directed to cause the standing rules of order of the Board of Aldermen and the Common Council, a list of the standing committees of the City Council, a list of the city officers, and such portion of the record of the organization of the city government as they may deem expedient, to be printed for the use of the City Council, under the general title of the "City Manual."

Witness:

A handwritten signature in cursive script, reading "Wm. Clarke", is written over a horizontal line. The signature is fluid and elegant, with the first name "Wm." and last name "Clarke" clearly distinguishable.

City Clerk.

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SECOND INAUGURAL ADDRESS
OF
AUGUSTUS S. MILLER,
MAYOR

DELIVERED JANUARY 4, 1904

GENTLEMEN OF THE CITY COUNCIL :

We have met to-day to organize the Municipal Government of the City of Providence for the year 1904.

Before presenting to you, the chosen conservators and furtherers of the interests of the taxpayers of this city, matters for your consideration, appertaining to the different departments of our municipality, I desire to express to my fellow-citizens my sincere appreciation of their approval of my endeavors to serve them the past year, which they have shown by re-electing me as their Mayor.

It is always gratifying to a public servant to feel that the people have confidence in him and approve of his conduct of the affairs which they have intrusted to him, and I hope that my acts during the year ensuing will justify my fellow-citizens in their confidence which they so heartily have manifested. I only can assure

them that it will be my earnest endeavor in the term of service upon which I enter to-day, as it has been in the past year, to work for their best interests in so far as I am enabled to do so.

FINANCES.

The following is a comparative statement by the City Auditor of the gross debt, sinking funds, and net debt of this city, 1902-03, with 1901-02:

GROSS DEBT.

	September 30, 1903.	September 30, 1902.	Increase.	Decrease.
Bonded water debt.....	\$6,006,000 00	\$6,009,000 00	.....	\$3,000 00
Floating water debt.....	55,000 00	.....	\$55,000 00	.....
Bonded debt other than water..	11,223,000 00	10,965,000 00	258,000 00	.....
Floating debt other than water.	1,053,420 06	865,723 91	187,696 16	.....
Total gross debt.....	\$18,337,420 06	\$17,839,723 91	\$500,696 15	\$3,000 00

SINKING FUND.

Water debt.....	\$1,554,599 28	\$1,236,844 69	\$297,754 69	.....
Debt other than water.....	2,972,833 21	2,624,804 63	348,078 58	.....
Total sinking funds.....	\$4,527,482 49	\$3,881,649 22	\$645,833 27	.....

NET DEBT.

Water debt.....	\$4,506,400 72	\$4,752,155 41	.....	\$245,754 69
Debt other than water.....	9,303,536 85	9,206,919 28	\$97,617 57	.....
Total net debt	\$13,809,937 57	\$13,958,074 69	.....	\$148,137 12
Decrease in net water debt.....	.....	.....	.....	\$245,754 69
Increase in net debt other than water. ....	.....	.....	\$97,617 57	.....

In my address to the City Council one year ago I called attention to the ordinance which passed the City Council and was approved September 26, 1902, authorizing and directing the City Auditor to allow bills contracted by any department of the city during the fiscal year ending September 30, 1902, in excess of the appropriations for said fiscal year, and to charge the same to the appropriations made for such departments for the fiscal year beginning October 1, 1902, and said that the plan thus adopted meant that the tax rate would be increased in 1903, and that the amounts to be appropriated for these departments in September, 1903, would be increased by at least the amount of those deficits.

The resolution of the City Council passed last May provided for a tax rate five cents on each \$100 greater than the rate for the previous three years, but the same as the rate assessed for 1896, 1897, 1898 and 1899. This course seemed to be absolutely necessary if the city was to continue progressive and was approved by me.

The appropriations asked for by the several departments for the financial year 1903-1904 submitted to the City Auditor in March last, after having

been reduced by the Committee on Finance
\$413,539.69 were approved by that Committee
for \$4,166,593 57

To which was to be added the deficit
from 1901-1902, which the City Council
had planned to pay this year, amount-
ing to 81,413 09

Making the total estimated require-
ments \$4,248,006 66

The ordinances require that the tax
shall be ordered in May and as the
valuation is fixed as of July 1, and the
total is not known until September 1,
it becomes necessary to use estimates
for the purpose of fixing upon a tax
rate, therefore the Auditor estimated
the valuation for July 1, 1903, at
\$198,000,000. (The valuation July 1,
1902, was \$197,873,000.) The esti-
mated valuation of \$198,000,000 at
\$1.60 on each \$100 gives \$3,168,000 00

Add estimated receipts other than
taxes 898,750 00

Add sewer assessments to be applied
to the payment of sinking funds for
sewer loans 71,198 82

Showing a total estimated revenue of \$4,137,948 82

The revenue at the \$1.60 rate was
insufficient to meet the expenditures
by the sum of \$110,057 84

Equal to over five and one-half cents of
each \$100 of the estimated valuation.

The actual valuation as ascertained by the Assessors
of Taxes for July 1, 1903, was \$200,668,540.

The established rate of \$1.65 on
each \$100 produces \$3,311,030 91

Add estimated receipts other than
taxes 898,750 00

Add sewer assessments to be applied
to the payment of sinking funds for
sewer loans 71,198 82

Total revenue \$4,280,979 73

The total amount appropriated by
City Council Resolution No. 315, series
of 1903, including a sum insufficient to

pay the deficit from 1901-02 of \$81,-
413.09 was \$4,259,103 54

Leaving an apparent surplus re-
venue of \$21,876 19

But uncollected taxes each year amount to a large sum, from \$25,000 to \$30,000.

The net increase in the amount appropriated by the City Council for the year 1903-04 over the year 1902-03, is \$185,148.28, distributed as follows:

Deficit from 1901-02.....	\$81,413 09	
Interest and sinking funds.....	50,745 00	
Public Buildings.....	17,283 38	
Public Schools.....	10,093 30	
Harbor.....	10,000 00	
Public Works — Water Maintenance.....	10,000 00	
Health Department.....	9,611 49	
Public Parks — General Account.....	2,500 00	
Support of the Poor.....	2,000 00	
Tax Department.....	1,500 00	
Printing.....	1,000 00	
Fire Department.....	501 92	
City Clerk's Department.....	500 00	
Relief Fund for Firemen and Policemen.....	403 28	
Inspector of Plumbing.....	300 00	
Inspector of Buildings.....	100 00	
Auditing Department.....	100 00	
Police Department.....	96 82	
		<u>\$198,148 28</u>
Less reductions :		
Providence Lying-in Hospital.....	\$2,000 00	
Public Works — Lights.....	10,000 00	
Public Works — Offices.....	1,000 00	
		<u>\$13,000 00</u>
Net increase.....		<u>\$185,148 28</u>

The deficit from 1901-02 and the increase for interest and sinking funds equals over six and one-half cents on each \$100 of the valuation.

An increase in the appropriations for some departments was much needed; for the Public Buildings Department, for the Harbor, for the Health Department, and for the support of the poor, previous appropriations had been inadequate.

Included among the reductions is the item of \$2,000 for the Providence Lying-in Hospital. The annual appropriation of the amount of \$2,000 for that Hospital in 1901 and 1902 having been made without authority from the General Assembly, no appropriation for that worthy institution was made for the current year, but a resolution was passed by the City Council which was approved by me September 18th, 1903, instructing the City Solicitor to apply to the General Assembly at its next session for such legislation as may be necessary to authorize the City Council to appropriate and pay to the Providence Lying-in Hospital and the Saint Joseph's Hospital of Providence such sums of money annually hereafter as said City Council may deem expedient and advisable for the City of Providence to so appropriate and pay to said Hospitals out of funds not otherwise appropriated. I trust that such authority

will be given to the city and that the City Council will make such appropriations hereafter as they may deem proper for these Hospitals which are doing excellent service for our city.

The tax rate having been increased, and the valuation of the Assessors also having been increased more than it was estimated it would be, the revenue for the current year is more ample than for the year previous, when the Finance Committee felt obliged to ask you to urge the heads of departments to practice most rigid economy, but because more funds are now available for carrying on the necessary work of the departments there is no reason why now economy should not be practiced, even if not such rigid economy as heretofore.

There is a tendency, if funds are more plentiful, to be less careful in regard to expenditures, and it is noticed that almost immediately efforts are made to have salaries in all departments increased. These solicitations should be carefully considered by you before giving them your approval, and you should furthermore be cautious in favoring plans and projects for certain improvements which, while unobjectionable if presented at a proper time, may now be urged upon you only for the benefit of a comparatively few citizens in localities where, if such improvements be made,

the city as a whole will derive from them but little benefit.

In connection with the subject of finances I desire to speak again of the needed change in our present system of taxation. For the past ten years or more the City of Providence has been endeavoring to bring about a reform in our tax laws and much work has been done therefor by committees of the City Council, by former Mayors and by the City Solicitor's office.

At the last session of the General Assembly the late Senator Jackson of this city introduced in the Senate a bill similar in effect to those introduced in previous years to accomplish the purpose desired, which bill was referred to a committee and never reported back to the Senate. This year it is thought that there may be a better prospect of securing favorable legislation upon this important matter than at any time previous, and I trust that the members of the City Council will use all their influence to have such a law passed at the next session of the General Assembly.

DEPARTMENT OF PUBLIC WORKS.

Robert E. Smith, who had been the Commissioner of Public Works for the City of Providence for twelve consecutive years, died on the 22d day of July last. As I said in my message to the City Council at that time, by his death the municipality lost a faithful servant, a man of great advisory and executive ability.

The law under which he was chosen to that position provided that the Commissioner should be appointed by the Mayor, to be approved by the Board of Aldermen, but it did not provide for the filling of any vacancy which might occur in said office. I therefore obtained from the Supreme Court of the State an opinion as to how such vacancy should be filled, and the Court deciding that it should be by the City Council, the Council with excellent judgment elected the one man most familiar with the work of that department, Walter F. Slade, who had been the Secretary of Commissioner Smith during his entire term of service.

My attention has been called by Commissioner Slade to the following matters pertaining to his department :

Sewers.

The improved sewerage system adopted some years ago is practically completed. Extensions of the Mount Pleasant Division and Elmgrove Avenue sewers have been requested, and it is desirable to do the work whenever satisfactory arrangements can be made for rights of way.

There is an urgent call for more storm sewers to relieve the few sections that suffer from surface water at every unusual rainfall. The construction of storm sewers will not only give relief from flooded cellars, but will be a further advantage to the city from the fact that comparatively clean surface water then will be discharged during rainstorms directly into the harbor, instead of having to be pumped and treated as sewage at the precipitation tanks as at present.

It is proposed to build during the coming year such storm sewers to relieve the districts in the vicinity of Brook and Waterman Streets and of Dudley and Plain Streets.

Highways.

Macadam pavement continues to be a favorite in this city. It makes an excellent roadway for residential sections where the traffic is light, but is an expen-

sive pavement to maintain and is unsatisfactory on account of resultant mud or dust where traffic is heavy. These serious disadvantages to some of our main streets cannot be obviated unless more durable pavement is laid; the dust cannot be avoided except by constant watering of the streets, and when watered the heavy teaming soon grinds the surface into mud. Relief can be gained only by frequent resurfacing, and that is expensive. The excuse for adhering to this class of pavement is the first cost of new pavements. The proportion of macadam to other forms of more durable pavement in Providence, reckoned in mileage, is largely in excess of that in any other progressive northern city.

There are about ten miles of streets which should have a different pavement, more durable, and therefore more economical, besides being more pleasant and healthful. With few exceptions these streets are narrow, with trolley rails laid in the centre and with narrow spaces on each side of the rails where all the heavy traffic is concentrated.

The Commissioner suggests that there are several classes of pavement that are suitable for streets where macadam is objectionable; that when the grade is flat and the sunlight can reach the pavement, asphalt

still retains its popularity; that where the grade is steep, bitulithic macadam is giving good satisfaction, since it furnishes an excellent foothold for horses and can be watered without injury to it, and that vitrified bricks also furnish a durable and approved pavement.

This subject should receive careful consideration. An annual appropriation of a reasonable sum of money devoted solely to replacing the macadam, as it wears out, with other improved pavements, in a few years would enable the city to have its streets paved with a more durable pavement that would be advantageous not alone in the cost of maintenance and in cleanliness, but for comfort and pleasure to those who live upon the streets or are obliged to travel over them.

The Common Council and Board of Aldermen should be careful not to receive too many streets. As soon as a street is received and the city has had a reasonable time within which to build it, the city becomes liable for any injury which might happen to anyone passing over the same. To build the number of streets already received will exhaust the appropriation for the present fiscal year.

Water Works.

The work of construction of the filtration plant at the Pettaconsett Pumping Station has made good progress during the past year, although delayed in the early part of the year by heavy rainstorms that kept the ground flooded and necessitated pumping the water from the land. The work will be completed during the ensuing year.

The additional cost to filter the water will call for renewed efforts on the part of the department to restrict so far as possible all unnecessary waste. From the time that Pawtuxet water was introduced into the city, the officials connected with our water department have realized the importance of preventing its waste, and to-day our per capita consumption is among the lowest of the principal cities of the country. The method pursued to accomplish this result is a subject of frequent inquiry from those who are familiar with water works management in other cities. It is believed, however, that even better results can be obtained, and water consumers are requested to assist the department in its investigation, as it is important not alone from the standpoint of an economical management, but also that the city may be assured of a sufficient pressure for fires and for manufacturing purposes.

Another important matter that with safety no longer can be delayed is the installation of a new pumping engine. The present engine will pump only 15,000,000 gallons of water in twenty-four hours, which is about the amount used daily in the summer. The new engine should have a pumping capacity of at least 25,000,000 gallons so that the reservoirs could be filled while the stream is running as usual, that there may be a sufficient supply to meet the demands when the manufacturers hold back and store the water in the reservoirs farther up the river, as they do some days in each week during the dry summer season. There have been times during the past year when it has been a subject of serious concern to the department to maintain the reservoirs with a full supply of water. The cost of the work can be charged to the account for Water Works Maintenance, and the City Council will be requested to make an appropriation therefor.

Public Lights.

This city is one of the best lighted in this country, but only at an expenditure in excess of the average in other cities, estimated either per capita or per acre.

Although the cost for arc lights has been reduced during the past year, the cost per capita for lighting

the city is exceeded by only one city out of one hundred and thirty-seven cities, statistics of which were published in the Bulletin of the Department of Labor of the United States Government for 1902; and the cost per arc light, even at the reduced rate, considering the items of candle power, cost of coal and hours burning, is far greater than the average cost in other cities of about the same population.

The city has been very liberal in placing the lights near together, but it is a very doubtful question whether it is in any manner justified in attempting to light every dark place where a tree casts a shadow, or to light the entrances to private property, or platted streets where few if any houses are built. In view of the excessive cost of this department, it is your duty to consider carefully all petitions for additional lights.

The present contracts for lighting the city with electricity expire June 15, 1906.

PUBLIC HEALTH.

During the past year the city has been extremely fortunate in its comparative freedom from smallpox. Although the disease has been very prevalent throughout the country, it has appeared in Providence only

twice and in each case has been confined to the family which brought it here.

There has been rather more scarlet fever and diphtheria than usual and the hospital wards used for these diseases have several times been taxed to their utmost.

In this connection I desire to speak of the Hospital service which has been rendered to this city by the Rhode Island Hospital. Unlike other cities of its size, Providence has no City Hospital and the city's poor have been cared for at the Rhode Island Hospital at a great expense to that institution. The City of Providence heretofore has contributed to this Hospital but five thousand dollars per annum and this for twenty beds for the use of injured or sick employees of the city.

A petition was presented to the last City Council, setting forth the pecuniary condition of the Hospital at the present time, and asking, in consideration of the fact that by continuing to avail of the services of the Rhode Island Hospital, the city is saved the large outlay for the erection of a City Hospital, as well as for the annual cost for its maintenance, that if the Rhode Island Hospital is to continue to do this work for the city it should receive more adequate compensation therefor, and the City Council has passed a resolution

directing the City Solicitor to apply to the General Assembly at its next session to amend the Act whereby the City of Providence was given authority to appropriate annually to the Rhode Island Hospital the sum of \$5,000, so that the City Council can appropriate and pay to that Hospital such sum of money annually hereafter as the City Council may deem expedient and desirable for this city to so appropriate.

I trust that when the authority to increase our annual appropriation for this worthy purpose is obtained, that the City Council will do what is just in regard to this noble institution, which has performed its duties so faithfully and so inexpensively to our city.

FIRE DEPARTMENT.

Our Fire Department in previous years has been conducted in a praiseworthy manner and the service of that department has acquired great reputation not only at home but throughout the country for its efficiency. What the result of the action of the previous City Council in changing the terms of service of the Fire Commissioners will be upon that department remains to be seen.

The City Ordinance which provided that our Fire Commissioners should be three in number holding

office for three years, one being elected each year, was in accord with the principles upon which such departments for years, both here and elsewhere, have been established, and when so established have given satisfaction, for thereby there are always some members upon the Board who are familiar with the workings of the department and who are well informed of the necessary requirements of the department so that it may be conducted successfully, as ours has been conducted.

The amendment made to that ordinance by the last City Council, providing that each year three new men may be elected to serve but for one year, in my opinion was most inadvisable and I felt compelled to veto the ordinance as amended, the only veto message which I sent to the City Council during the past year.

The amended ordinance however having been passed over my veto, this City Council is called upon to-day for the first time to elect three Fire Commissioners to hold office for the term of but one year. I trust that the City Council in the future, in its selection of men for Fire Commissioners of the City of Providence, will be governed only by the recognized fitness of the men for that office; that the office will not be given in payment for partisan services regardless of the qualifica-

tions of the candidate ; but that men will be elected because of their capability and practical knowledge of the requirements of the department, and that their work as commissioners will be performed so satisfactorily that their term of service may be continued beyond the one year for which under this ordinance they will be elected.

The Fire Commissioners have called my attention to the following matters :

During the eleven months ending November 30th. 1903, the Fire Department responded to 881 alarms. this being an increase of 31 over the number responded to during the corresponding period of 1902.

The number of fires is increasing each year, and although this must be expected in a rapidly growing city, yet it adds more largely to the work of the department than is generally realized, and calls for constant oversight on the part of those in charge, in order that everything connected therewith may at all times be in readiness for service.

The expenditures have been kept at as low a figure as possible and the strictest economy has been practiced, and although the Board for the past two years has labored under the disadvantage of insufficient appropriations, and notwithstanding the

great increase that has been made in the cost of repairs and all supplies that are needed, the apparatus, equipments and everything appertaining to the service have been maintained in the best possible condition, and such appliances as the Board believed would tend to reduce the fire loss have been added.

To reduce this loss to the lowest point has been the constant aim of the Commissioners, and the comparative immunity from disastrous fires which this community has enjoyed should prove a source of gratification to all interested in the progress and welfare of the city.

The Central Fire Station, authorized by Joint Resolution No. 321, of the City Council, approved August 3, 1900, was occupied by the department March 26, 1903, and the old "Three Ones" station, used since 1875, was sold at public auction two days later.

The new station is amply sufficient for the purposes for which it was constructed. The third story was intended, mainly, for the use of the fire alarm service. The cost of removing the fire alarm apparatus from the City Hall to the Central Fire Station and adding thereto such new equipments as are needed will approximate the sum of ten thousand dollars. and the Fire Commissioners, I am informed, are unanimously

of the opinion that the efficiency of the service would be greatly increased if this action were taken.

The citizens of the Mount Pleasant section of the Tenth Ward before the expiration of the ensuing year will be provided with that protection which has long been needed, and which was authorized by the City Council more than one year ago. Land has been purchased at the corner of Mount Pleasant Avenue and Dover Street, and a fire station is now in process of construction thereon. This station, when completed, will be provided with a hook and ladder truck, which has already been ordered, and a company of sufficient strength to cope with such fires as may occur will be placed in charge.

At the present time the nearest hook and ladder companies are: Hook and Ladder, No. 3, located on Douglas Avenue, and Hook and Ladder, No. 6, located at the corner of Atwells Avenue and America Street. Both of these companies are too distantly located to render the service which is required, and the new company will be in a position not only to protect the property in that immediate section, but also will relieve the companies named from long and arduous calls.

The Fire Commissioners are of the opinion that the station on Central Street, occupied by Hose Company

No. 13, should be remodeled and enlarged. This station was built in 1874-75, and, at that time, furnished accommodations for but two men. At the present time the company consists of eight men, and although the interior of the station has in some particulars been re-arranged, yet the building is practically the same as when first occupied. The hose company located at this point is one of the most important in the city, being located in a district where the risks are both numerous and dangerous, and being called to respond to a great number of alarms each year. The arrangement of the quarters which they occupy is poorly calculated to add to the comfort of the men or to promote the efficiency of the service, and the question of making the changes desired should be considered by the City Council at as early a date as possible.

The Commissioners say that nearly two years ago they called the attention of the City Council to the fact that the needs of the Elmwood section required that that portion of the building on Greenwich Street, formerly occupied as the Seventh Police Station, should be utilized for Fire Department purposes, and that it was the intention of the Board, in case action had been taken in accordance with their recommendation, to place an engine, to be run in conjunction with Hose

Company No. 11, in service at this station. The section referred to has grown very rapidly and the property values are constantly increasing, and yet the protection which the Fire Department affords is far from what it should be. The hydrant pressure is none too effective, but reliance must be almost wholly placed upon it, as the nearest engine is located at the corner of Burnside and Public Streets, nearly a mile away, and considerable time necessarily must elapse before it can be brought into service.

In the opinion of the Board, if the recommendation made at the time referred to could be carried into effect, it would result in giving to this district the protection which is actually needed, and which the Board, with the present facilities, are unable to afford.

At the meeting of the Common Council, held November 2, 1903, a report was submitted by the Board of Fire Commissioners recommending that better facilities be provided for protection against fire in that section of the city situated east of Ives Street and extending from Pitman Street northerly to the city line. This report was referred to the Joint Standing Committee on City Property and no action has been taken thereon.

The question of utilizing the Separate Water Service

as a primary supply for all properties desiring the same, which are located upon the line thereof. and which are equipped with Automatic Sprinklers. was fully considered during the year by the Fire Commissioners, the Commissioner of Public Works and representatives of the insurance companies.

As was pointed out at the time, it was feared that, "in case of necessity the six-inch service along Westminster Street, if a great demand was made upon it, in case of fire, would prove entirely inefficient to cope with the situation, and serious trouble and a terrible fire loss would be the result from a reliance upon this small pipe, which is already overloaded; and the great increase in area and height to buildings along this street; enormous values that are becoming concentrated at several points, render it necessary for the authorities to guard against any possible disaster which might occur through insufficient supply of water in time of great need."

The Commissioners were of the opinion that inasmuch as the Separate Service was expressly installed for fire purposes, its extension along any lines where the protection could be increased, without detriment to the system, would be a step in the right direction. and they therefore gave their hearty approval to the

plan suggested by the insurance interests and recommended to the Commissioner of Public Works, who has sole charge of all matters pertaining to the water service, that connections be allowed to be made, under such restrictions and subject to such conditions as he might prescribe.

This permission has been granted and the Commissioners believe that the properties along this line, which are thus connected, are assured of the best protection which it is possible for them to obtain.

PUBLIC PARKS.

During the past year the Board of Park Commissioners has lost by death its Chairman, the Honorable Frank F. Olney, Mayor of this city from 1894 to 1896, and a Park Commissioner from January, 1895. It is to be hoped, when the vacancy is filled by the City Council, that you will elect one who will be as interested in his work and as faithful in its performance as was Colonel Olney.

At Roger Williams Park the Anna H. Man Memorial Gates have been erected at the Elmwood Avenue entrance. These gates are of bronze, with granite posts, and are imposing and massive in their construc-

tion and are a fitting tribute to the memory of the late Miss Man, whose generous gift to the city, in trust, the income thereof to be expended in the care and improvement of this Park, should not be forgotten.

The fishing in the lakes at this Park, which were opened to the public for that purpose on the first of July last, has proved very attractive and afforded much pleasure to hundreds of citizens without injury to the lakes in any respect, and incidentally has yielded quite a revenue which is used in beautifying and improving the Park.

The Commissioners state that there is need of more iced water fountains for the accommodation of the thousands of people who visit the Park; that at least four more of these fountains should be erected in order to provide for the comfort of those visiting our beautiful Park in the summer season.

The Natural History Museum attracts a large number of people seeking information from its library and numerous exhibits. Provision recently has been made for the cases so long needed for the exhibition and preservation of its varied and valuable collections.

The band concerts at this Park the past season were attractive as usual.

The band concerts given in several of the smaller

parks in different sections of the city early in the season were largely attended and great interest was manifested in them by citizens residing in those localities. The Commissioners deem it desirable that some provision should be made by the City Council to continue these concerts the coming season.

At Blackstone Park an area of about 440,000 square feet has been added, most of this area being situated on the bluff overlooking the Seekonk River. By the grading, paving and macadamizing of the roadway continuation of Angell Street through the park property, the change of grade and improvement of Gower Street at its southerly end, the river road is now easily accessible from these points. The views from this road are very fine and will be enjoyed much more now that facilities for reaching this part of our park system have been improved.

Plans are now being prepared for improving the Blackstone Boulevard Parkway by the planting of trees and shrubs, and by such grading as may be necessary owing to the laying of rails for the two lines of electric cars authorized by the City Council. It is expected that these plans will be completed in time for the work to commence early in the spring.

At Davis Park the large level tract of land in front

of the Mansion House was opened to the public for baseball and football games last season, and athletic apparatus will be placed there the coming spring.

The Commissioners are now having plans prepared for the equipment with athletic apparatus of the playground for which the Council recently made provision at Tockwotton Park.

At Neutaconkanut Hill thirty-two acres of land have been acquired and dedicated by the City Council for park purposes, and in all, during the year of 1903, forty-three and one-half acres of land have been added to the park area of the city, making a total of nearly six hundred acres now devoted to park purposes.

POLICE DEPARTMENT.

On the ninth day of November last, the Governor of the State appointed me to fill the vacancy upon the Board of Police Commissioners for the City of Providence, occasioned by the death of the Honorable Frank F. Olney. I declined to accept the office, giving to the Governor my reasons for so doing, that I had long been of the opinion that the appointment of the heads of all city departments, and especially of so important a department as that controlling the police of

a city, should be vested in its Mayor, and that I always had opposed the taking away from the City of Providence the right of local self-government and home rule by placing the appointment of the Commissioners controlling the Police Department in the hands of State officials; therefore, since, if I accepted the office, I should not be a chosen officer of the citizens of Providence, but an official of the State, I must decline the position.

In my last message, after stating fully my reasons for opposing the continuance of the control of this department by State officials, I said, "Even if to the present time the appointees have been most estimable citizens, and if the old adage that 'a new broom sweeps clean' again has proved true, these are no arguments in favor of such a violation of the rights of the people to local self-government. Nay, more, if this State commission be continued, unless our case becomes a rare exception, it will be found that the work ultimately will not be so well done as it would be if controlled, as it should be, by the city's officers, chosen by the people who pay the bills."

I ask you to-day, is it not now time that this department be restored to the charge of the city's officers, chosen by the people who pay the bills?

At the last session of the General Assembly an Act was introduced, drawn by a representative from our city, which provided that a Board of Police Commissioners for the City of Providence should be established, consisting of three qualified electors of this city, not more than two of whom should be members of the same political party; that the Commissioners should be appointed by the Mayor and that their term of office should be three years, one member being appointed each year. The bill was strongly supported by the able delegation from Providence and at the advertised public hearing upon the measure before the House Committee of the Judiciary its passage was advocated by leading representative citizens and no one appeared in opposition to it, but the measure was killed by the party in control of the General Assembly. I trust that our present delegation will see that a like Act is introduced at the coming session and will strive to right this wrong which has been done to this municipality.

PUBLIC SCHOOLS.

The School Committee, under its administration for the past year, is certainly to be commended for one reform which it effected, the revision of its By-Laws.

The important changes made in the By-Laws concern principally the election and duties of the Superintendent of Schools, the election of the Secretary, the Purchasing Agent, the Superintendent of School Property and the purchase of text books.

By the revision, the power of appointment and of the removal and transfer of teachers has been placed in the hands of the Superintendent of Schools, where it naturally belongs. The sub-committees of the grammar and primary schools now recommend an eligible list of appointments for those schools to the Superintendent and his nominations from that list go to the General Committee for approval. Heretofore the sub-committees nominated all teachers.

The Secretary, who was formerly elected annually, it is now provided shall hold office during good behavior, but may be removed by a three-fifths' vote of the General Committee. He has the power to appoint and dismiss his clerks.

The Purchasing Agent, who was formerly appointed by the Executive Committee, is now nominated by that Committee and elected by the General Committee.

The Superintendent of School Property takes the place of the Superintendent of Janitors, and is elected by the General Committee, instead of by the Committee on Schoolhouses, as formerly. He will appoint all janitors and be responsible for all school property.

The teachers now have a voice in the selection of text books. Before any books are taken from or added to the authorized list of text books they are first submitted to a representative committee of teachers, and the report of this committee, with the approval or disapproval thereof of the Superintendent of Schools, is submitted to the Committee on Text Books, and by that Committee referred to the General Committee.

These changes in the By-Laws are radical in this, that greater responsibility is placed upon the Superintendent of Schools, who now holds office practically during good behavior.

It has become apparent that, in the opinion of our citizens who are interested in the cause of education, a change is needed in the management of our public schools. Instead of the School Committee of thirty-three members, which we have at present, it is thought

that better results would be obtained if a Commission consisting of five men of high standing could be selected for the management and control of the public schools of the City of Providence. A bill was introduced at the last session of the General Assembly for such a Commission, to be called the Board of Education of the City of Providence, the members thereof to be elected by the electors of this city qualified to vote for general officers, and to serve for five years, one to be elected annually. This measure was advocated before the Legislative Committee by many of our most worthy citizens, but met with the same fate that was accorded to the other measures which were introduced for the benefit of the City of Providence, — the Police Commission Act and the Act to afford us equitable taxation.

If a change is to be made in the management and control of our public schools and a Board of Education is to supplant our School Committee, it should be elected in accordance with the provisions of that proposed Act, unless appointed by the Mayor, as was provided in the draft of the proposed new City Charter, to which I have herein referred.

It is doubtless unquestionable that a Board of five competent citizens could conduct the affairs of the

schools more satisfactorily and with greater saving in expense to the City of Providence than the present School Committee.

CITY MESSENGER.

Sincere sorrow was felt in this community when it was learned near the close of the last municipal year that Mr. Edward S. Rhodes, who had held the office of City Messenger and City Sergeant continuously from June, 1861, had departed this life.

He was a public servant who was always faithful and conscientious in his service rendered to the city, and by his kindly disposition and gracious bearing had made himself beloved by all with whom he came in contact. His presence at the City Hall will be missed greatly by those who were accustomed daily to meet him here, active in the performance of his many duties, and his memory will long be cherished by the many friends he had made during his long years of service.

Provision was made by the City Council for the continuation of the duties of his office until the end of the municipal year by his efficient assistant who had been for more than ten years in the office.

A NEW CITY CHARTER.

The Charter of the City of Providence was adopted in 1866 when the estimated population of Providence was about 55,000, while to-day it is a large and rapidly growing city with a population estimated to exceed 190,000.

A casual examination of this Charter as it appears to-day will show the great number of amendments to it which have been made by the General Assembly since 1866 to the present time, frequently several in the same year, and how defective some of those amendments are was shown during the past year, when the vacancy occurred in the office of the Commissioner of Public Works, to which previously I have referred.

The Charter of 1866 provided in Section IX, "Of the City Council and their Powers," Clause 8, that unless by that Act a different term of office was provided for, all officers of the city should be elected annually, and that all vacancies, unless therein otherwise directed, should be supplied for the current municipal year, and in Clause 10 of the same section, that the City Council should have power to fill all vacancies, arising from any cause, in any of the municipal offices of the city, except those of Mayor, Alder-

men and Common Councilmen, until the next regular election of such officers.

If these provisions of the Charter of 1866, as to the powers of the City Council to elect city officers and to fill vacancies arising in their offices, be considered in connection with Chapter 869 of the Public Laws, an Act in amendment of the Charter, passed by the General Assembly twenty-four years subsequent thereto, which authorized the Mayor to appoint a Commissioner of Public Works for three years, but made no provision for filling any vacancy in said office, recognizing that the unquestioned purpose of the amending Act was to take completely from the City Council the power which theretofore it had exercised over the Department of Public Works, including the City Engineering Department, it being provided by said amending Act that the City Engineer who hitherto had been elected by the City Council thenceforth should be appointed by the Mayor's appointed Commissioner of Public Works, and recognizing also that the general rules of law concerning the interpretation of Legislative Acts provide that in construing a statute, if possible, the ascertained will of the Legislature should be carried out and that the later statute, the evident intention of which is to furnish the exclusive

rule governing a certain case, repeals all other laws on the same subject, and that the power to appoint to an office includes by implication the power to fill a vacancy in it and all the necessary authority to carry out the original power and prevent its becoming inoperative,—all this being considered and the questions being whether the vacancy should be filled by appointment by the Mayor in accordance with the intent of the amending Act, or whether the provisions made in 1866 for the City Council to fill vacancies would be applicable to this case, and if the City Council could fill this vacancy for what period it could fill it, some of the difficulties presented by the present condition of our Charter readily may be seen.

Furthermore, pending the filling of the vacancy, the Charter not providing any method for filling the office temporarily even, the City Council had to pass an ordinance to provide for the emergency, authorizing and directing the City Auditor to audit for payment all pay rolls for work done, claims for money due under contracts, and for supplies and material furnished under contract or otherwise, and all salary accounts pertaining to carrying on the business of the Department of Public Works, including the City Engineer's Department, upon the same being certified to as correct

by the Secretary of the late Commissioner, and the City Treasurer being authorized to pay the same when so certified and audited, until the vacancy in the office of Commissioner of Public Works should be filled.

Recently, by the death of the City Messenger, it was found necessary that the City Council should pass a similar ordinance, there being no provision in the Charter, or in any amendment thereto, for carrying on the necessary work of his office or for the payment of bills, until a new City Messenger should be elected.

The City Solicitor now is under instruction from the City Council to apply to the General Assembly to obtain permission for you to pass ordinances relative to matters of importance to the city for which provision should be made in a properly drafted Charter.

There are other reasons more important than these why a new Charter should be adopted; for the best interests of the city many methods now in vogue should be changed.

The City Council, in 1896, fully aware of the necessity of a new Charter, appointed a Commission to draft one. Able Commissioners were appointed and they submitted a draft of a Charter in 1898, to which I called attention in my last message, and which I call

to your attention at this time. The proposed Charter was an admirable one in many respects. It provided for municipal home rule, for the entire separation of legislative and executive functions, "which under our present system are now so confused," for the appointment of all executive officers and Boards by the Mayor, these Boards to appoint their own administrative officers.

It was also provided in that draft of a Charter for a single legislative body, to which provision objections have been made by members of former City Councils — the only objections to the proposed Charter that I have heard advanced against its adoption.

If that draft of a Charter is not entirely satisfactory to you, it is a good foundation upon which to build, and I earnestly hope that some effort upon your part in that direction will be made during the coming year.

Certainly the proposed Charter was in the right line and many of the reforms therein provided for are greatly needed. Do something about it in the interests of your fellow-citizens. By continually going to the Legislature for amendments to an antiquated Charter and massing together such inconsistent and inefficient amendments not only continuous trouble is caused for public servants, but much that is good and

beneficial to our city is prevented from being accomplished.

I am convinced that unless some action be taken by you speedily, in favor of this desired reform, it will become necessary for the people to make this the dominant issue in the election of members of the City Council in the near future.

Gentlemen of the City Council: It should be the desire of us all, laying aside personal feelings and political prejudice, and only mindful of our oaths of office, to further the interests of the citizens of this beautiful city in every way possible; to maintain the well earned reputation of our city for clean and well lighted streets, well kept public buildings, and a most efficient Fire Department, for fine parks, for good schools, and all that goes to make an attractive residential and safe and well protected business community, and I ask your earnest efforts to that end, in your choice of city officers, and in your legislative work during the ensuing year.

JOINT RULES
AND
JOINT COMMITTEES
OF THE
CITY COUNCIL.

ORDINANCES OF THE CITY OF PROVIDENCE,
CHAPTER 6 AS AMENDED BY CHAPTER 112.

JOINT COMMITTEES OF THE CITY COUNCIL.

SECTION 1. There shall be annually appointed, immediately after the organization of the city government, the following joint standing committees of the city council, who shall hold their offices until the expiration of the current municipal year, viz.; a committee on finance; a committee on highways; a committee on education; a committee on the fire department; a committee on city property; a committee on police; a committee on ordinances; a committee on claims; a committee on printing; a committee on parks; a committee on railroads; a committee on sewers; a committee on the north burial ground; a committee on the harbor; a committee on lights; a committee on water; each of which committees shall consist of four members of the common council to be appointed by the president of the

common council, and one alderman to be appointed by the mayor; and a committee on the city engineer's department, to consist of the mayor, the president of the board of aldermen, the president of the common council, the chairmen of the joint standing committees on highways and sewers, and one member of the common council to be appointed by the president thereof.

SEC. 2. The mayor, the chairman of the police committee of the board of aldermen, the president of the common council, and the chairman of the joint standing committee on the fire department, are hereby created a joint standing committee of the city council for the relief of disabled firemen and policemen, in accordance with and subject to the following provisions: When any member of the fire or police departments of the City of Providence, while in the actual performance of his duty as a member thereof, has become or shall hereafter become permanently disabled, he shall be entitled to and paid such sum or sums as said committee may in their discretion, and after hearing, upon any application for relief for the cause aforesaid, determine to be just and proper; and said committee are hereby further authorized to draw their order upon the city treasurer for such amount, which order shall be charged to the special appropriation hereinafter named. In no case shall such allowance exceed the sum of four hundred dollars per annum to any one person. Should any member of the fire or police departments be killed, or die from the effect of injuries received while in the actual performance of his duty, or from any disease contracted while in the performance of his duty, leaving a widow and children, or either a widow or

children, dependent in whole or in part upon the services of such deceased fireman or policeman for support, such widow or children, or both, may, in the discretion of said committee, and upon due application therefor, be allowed a sum not exceeding three hundred dollars per annum, to be paid to such widow and children, or either of them, in such manner and in such sum or sums as said committee may from time to time adjudge to be proper. In no event shall the widow of any deceased fireman or policeman be entitled to an allowance under the provisions of this section after remarriage. The amount hereafter allowed for relief under this section shall not exceed in any one year the sum of fifteen hundred dollars for firemen, and fifteen hundred dollars for policemen, which shall be taken from the appropriation for the relief of firemen or of policemen.

SEC. 3. Joint committees, whether standing or special, shall have power to elect their own chairman; and in default of such election, the member first named on a committee shall be chairman thereof, and in case of his resignation or inability, the other members, in the order in which they are named, shall act as chairman.

SEC. 4. Joint standing committees shall cause a record of their proceedings to be kept in a book to be provided by the city for that purpose, and no report shall be received unless agreed to in committee actually assembled.

SEC. 5. Every joint committee to whom any subject shall have been referred shall report thereon within four weeks to the branch making such reference, or shall ask for further time; and all joint special committees shall report to the city council, at least once in three months, the condition of



John E. Hendrick
President
Common Council



James F. Keppinger
Vice President
Board of Aldermen



T. Frederick Chase
City Sergeant



Daniel F. Mayson
Clerk of Common Council
and
Clerk of Committees



William E. Clarke
City Clerk
Clerk of Board of Aldermen

the matter referred to them, and shall also, annually, in the month of January, make to the city council a full report of the matter referred to them, and shall thereupon be *ipso facto* discharged from the further consideration of the matter referred to them, unless they shall by joint resolution be continued as such special committee.

SEC. 6. All reports and other papers submitted to the city council shall be written in a fair hand and on separate sheets of paper, and shall be suitably indorsed by the member presenting the same; and no other indorsement or report of any kind shall be made on the reports, memorials or other papers which may be referred to any joint committee, except such as may be made by the clerk of either branch of the city council. All reports shall be signed by the writer thereof, unless otherwise ordered by the committee.

SEC. 7. No chairman of any joint committee shall audit or approve any bill or account against the city for services or supplies, unless the same shall have been ordered by the committee, nor shall he approve any bill or account except by vote of the committee.

SEC. 8. There shall be elected annually, in the month of January, by ballot in each branch of the city council, a joint committee on accounts, to consist of two on the part of the board of aldermen and five on the part of the common council, whose duty it shall be to meet once a month and as much oftener as they may deem expedient.



SEC. 9. Whenever any vote shall be taken in either branch of the city council upon any ordinance, resolution, or order involving the expenditure of money, the ayes and noes shall be called.

RULES OF ORDER
OF THE
BOARD OF ALDERMEN.

[Adopted January 4, 1904.]

FIRST.

The Mayor, and in his absence the President of the Board shall preside, and in the absence of both the Mayor and the President, the President pro tempore shall preside.

SECOND.

The chair shall preserve decorum and order, may speak on points of order in preference to other members, and shall decide all points of order subject to an appeal to the board by motion regularly seconded, and no other business shall be in order till the question on appeal shall have been decided by a majority vote of the members present.

THIRD.

Any member desiring to speak, shall address the chair, and after his right to speak has been recognized, he shall not be interrupted while speaking, except by a call to order, or for the correction of a mistake; he shall confine his remarks

to the question under debate, and shall avoid personalities ; there shall be no conversation among members while such member is speaking, while a paper is being read, or while a question is being stated from the chair.

FOURTH.

The chair shall enforce order and decorum among persons outside the bar, and any person addressing the board by permission or by request, shall, while speaking, be subject to the same rules and entitled to the same privileges of order as pertain to a member of the board ; provided, however, that a member of the board may interrupt such speaker for the purpose of asking a question or of obtaining information.

FIFTH.

When a question is under debate, the chair shall receive no motion except "to adjourn," "to lay on the table," "to postpone to a day specified or indefinitely," "to commit," "to amend," which several motions shall have precedence in the order here named.

SIXTH.

When a vote has been passed, it shall be in order for any member to move a reconsideration thereof at the same meeting, or to give notice in writing of his intention to move a reconsideration at the next meeting ; in which case the clerk shall retain possession of the papers until the next meeting but no longer ; and when a motion to reconsider has been decided, that vote shall not be reconsidered.



Joseph Balch
Councilman



G. Richmond Parsons
Councilman



Stephen A. Cooke
Alderman



George W. Parks
Councilman



Clifford S. Tower
Councilman

WARD ONE.

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SEVENTH.

Every member who shall be present when a question is put shall vote thereon, unless excused for reasons to be stated at the time, and by two-thirds of the members present voting in the affirmative, without debate.

EIGHTH.

Every ordinance, resolution or order, after being read, shall be laid on the table until the next meeting, at the request of three members, but shall not lie on the table for a longer time, except by special vote or general consent.

NINTH.

The order of business at each meeting shall be as follows :

1. Referred business, including citations, grading and receiving streets, and other matters connected with the highways.

2. New business, consisting of executive communications, petitions, memorials, remonstrances, reports, motions, orders, resolutions, elections, granting licenses.

3. Papers from the Common Council.

Provided, however, that at all meetings specially called by the Mayor, the special business for which such meetings is called shall be first in order, and shall be taken up and exclusively considered until it is finally acted upon at such meeting, and no other business shall be acted upon or considered at such meeting except by the unanimous consent of the board.

TENTH.

No person shall be allowed inside the bar, during the sessions of the board, excepting members and officers of the

board and the reporters of newspapers employed to do the city printing; unless by special invitation from the chair, or from a member of the board through and with the approval of the chair.

ELEVENTH.

Heads of departments having reports to make or business to present to the board, shall give notice to the clerk of their intention to present such reports of business at least two days before the meeting of the board, in order that the same may be placed upon the docket, and members having business to present, shall, as far as possible, conform to the same rule.

TWELFTH.

The Mayor shall appoint all committees of the board, and shall also appoint Aldermen to all joint committees of the City Council; and the clerk of said board shall be ex-officio clerk of all standing and special committees of the Board of Aldermen.

THIRTEENTH.

There shall be annually appointed, immediately after the organization of the Board of Aldermen, the following standing committees, who shall hold their offices until the expiration of the current municipal year, viz.: A committee on armories, and a committee on auctioneers, each of which shall consist of two Aldermen; a committee on bridges, a committee on constables, a committee on health department, a committee on police, a committee on shows, a committee on street signs and numbers, a committee on streets, a committee on milk, and a committee on damages under

the dog law, each of which shall consist of three Aldermen. There shall also be appointed a committee on the poor department, which shall consist of three Aldermen, who shall have the general supervision of the poor department, and all bills contracted or expenditures incurred by the Overseer of the Poor shall be approved by said committee. There shall also be appointed a committee on hackey carriages, which shall consist of three Aldermen, who shall have the supervision of the granting of licenses for hackney carriages and other vehicles.

FOURTEENTH.

The foregoing rules shall not be altered, amended, suspended or repealed at any time, except by a vote of the majority of the whole number elected.

RULES OF ORDER
OF THE
COMMON COUNCIL.

[Adopted January 4, 1904.]

FIRST.

The President shall take the chair at the hour appointed for the meeting of the Council, and shall call the members to order on the appearance of a quorum, and shall cause the journal of the preceding meeting to be read, unless otherwise ordered from time to time the regular meeting of the Common Council shall be held at eight o'clock P. M. on the first Monday in each calender month, excepting however the months of July and August, when the summer recess is held, and also excepting the month of September, when the regular meeting shall be held on the second Monday in September.

SECOND.

He shall preserve decorum and order; may speak on general questions as other members, and, on points of order, in preference to other members. He shall decide all questions of order, subject to an appeal to the Council by any one member.

THIRD.

Every question shall be distinctly put by the President. When a vote is taken by ayes and noes, and the President doubts, or a division be called for, the Council shall divide.



Edwin S. Darling
Councilman

George P. Peterson
Councilman

Abraham A. Gray
Alderman

Charles R. Makepeace
Councilman

Charles Sisson
Councilman

WARD TWO.

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FOURTH.

Every member present, when a question is put, shall give his vote, unless the Council, for special reasons, excuse him.

FIFTH.

Every motion shall be reduced to writing if the President directs, or any member of the Council requests it, and may be withdrawn before a decision or amendment.

SIXTH.

When a question is under debate, no motion shall be received, unless "to adjourn," "to lay on the table," "to postpone indefinitely," "to postpone to a day certain," "to commit," "to amend," which several motions shall have precedence in the order in which they are here arranged.

SEVENTH.

No motion or proposition of a subject different from that under consideration shall be admitted under color of amendment.

EIGHTH.

When a vote has been passed, it shall be in order for any member to move a reconsideration thereof at the same meeting, or to give notice in writing of his intention to move a reconsideration at the next adjourned meeting; in the latter case the Clerk shall retain possession of the papers until the next adjourned meeting; and when such notice of an intention to reconsider has been given, no subsequent motion to reconsider the vote passed shall be in order at the same meeting, unless upon a withdrawal of the notice; and when

a motion to reconsider has been decided that vote shall not be reconsidered; and the same resolution shall come but once before the Council for reconsideration.

NINTH.

The following order of business shall be observed in all cases :

After the Clerk shall have read the record of the preceding meeting, which record is hereby made the duty of the Clerk to keep, communications from the Mayor shall then be received, read, and disposed of.

The unfinished business in which the Common Council was actually engaged at the time of its last adjournment shall then be taken up and disposed of. No other unfinished business shall be in order.

The President shall next call upon the standing committees for their reports in the following order, viz. :

Ordinances,	Education,
Finance,	Printing,
Claims,	North Burial Ground,
Highways,	Harbor,
Sewers,	Accounts,
Fire Department,	Parks,
Police,	Lamps, and
Railroads,	Water ;
City Property,	

and their reports shall be received and disposed of; and no other reports shall be made by the standing committees at that meeting.

The President shall next call upon special committees for their reports; and their reports shall be received and disposed of; and no other reports shall be made by any special committee at that meeting.

Business which may have been received from the Board of Aldermen shall next be taken up and disposed of.

The President shall then call for petitions and miscellaneous business, which shall be received and disposed of.

No business shall be offered, received, or acted upon, except in the foregoing order, except that a motion to adjourn, and a motion to invite the Board of Aldermen to join the Common Council in convention shall always be in order, and may be acted upon at any time during the meeting.

Questions respecting priority of business shall be decided without debate.

Provided, however, that at all meetings specially called by the Mayor, the special business for which such meeting is called shall be first in order, and shall be taken up and exclusively considered until it is finally acted upon at such meeting, and no other business shall be acted upon at such meeting except by vote of two-thirds of the members present.

TENTH.

Any rule may be amended or repealed by a majority of two-thirds of the members voting after one day's notice. The same majority may by vote dispense with any rule for the meeting at which such vote is had.

ELEVENTH.

All committees shall consist of four members, and shall be appointed by the President, unless the Council shall order

otherwise. And no report not in writing shall be received by the President without the consent of the Council being first asked and had.

TWELFTH.

No member shall speak more than once on the same question, until all other members desiring to speak thereon shall have done so; and no member shall speak more than twice on the same question if any member objects, without the permission of the Council being first asked and obtained.

THIRTEENTH.

A special order of business may at any time be voted by the Council for its next ensuing meeting, which order so voted shall in such case have precedence, for that meeting, of the order hereinbefore established.

FOURTEENTH.

It shall be the duty of the Clerk of the Common Council, in person or by deputy, to transmit from the Common Council to the Board of Aldermen, all such papers and communications as should be transmitted to said board.

FIFTEENTH.

It shall be the duty of the Clerk of the Common Council to transmit to the Mayor all papers and communications finally acted upon by the Common Council, and requiring the action of the Mayor.

SIXTEENTH.

Every ordinance presented shall, before being finally acted upon, have two readings, the first at the meeting in which



John I. Develin
Councilman



Thomas J. Flynn
Councilman



Dennis F. McCarthy
Alderman



John C. Dunn
Councilman



James J. McGovern
Councilman

WARD THREE.

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said ordinance is presented, and the second at the next regular meeting, *provided, however*, that both meetings shall not occur upon the same date, and it shall be the duty of the Clerk of the Common Council to indorse upon said ordinances the date which said readings are held.

SEVENTEENTH.

All committees and heads of departments having reports to make, or business to present to the Common Council, shall give notice to the Clerk of their intention to present such reports or business at least three days before the meeting of the Common Council, in order that the same may be printed upon the docket; and no such report or business shall be considered unless notice of the same shall have been given as herein provided.

EIGHTEENTH.

No person, except a member of the Council, shall be permitted to occupy the seat of any member while the Council is in session. The seats of the members of the Council shall be numbered, and shall be determined in the presence of the Council in the following order: All members who have served five or more consecutive years shall have the first choice of seats to be selected in the order of seniority of service. Where two or more members have served the same length of time they shall draw for the numbers of the seats desired. The seats of all the other members shall be determined by drawing the names of such members and the numbers of the remaining seats simultaneously; and each member shall be entitled for the year to the seat he has selected in accordance with the provisions of this rule, or to the seat

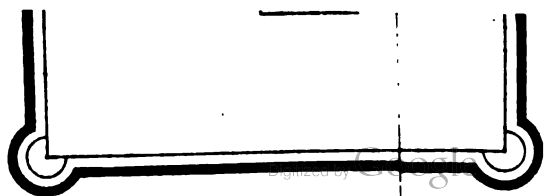
bearing the number so drawn against his name; and he shall not change it, except by permission of the President. The City Messenger shall allow no person upon the floor of the council chamber, or in the adjoining committee rooms, while the Council is in session, except members of the city government, heads of departments, and reporters, without the permission of the President. The President shall order such accommodations upon the floor for reporters and spectators as he shall deem proper, *provided, however*, that no spectators shall be seated near the desks of members of the Council.

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GOVERNMENT
OF THE
CITY OF PROVIDENCE.
1904.

MAYOR,
AUGUSTUS S. MILLER,
No. 194 Elmwood avenue.

BOARD OF ALDERMEN.

PRESIDENT,
JAMES F. FREEMAN.

PRESIDENT PRO TEMPORE,
BURMAH E. PERKINS.

	FIRST WARD.	
STEPHEN A. COOKE,	. . . . .	No. 158 Bowen street.
	SECOND WARD.	
ABRAHAM A. GRAY,	. . . . .	No. 59 Blackstone boulevard.
	THIRD WARD.	
DENNIS F. MCCARTHY,	. . . . .	No. 240 Charles street.
	FOURTH WARD.	
JOHN C. BUDLONG,	. . . . .	No. 604 Westminster street.
	FIFTH WARD.	
WILLIAM K. REYNOLDS,	. . . . .	No. 390 Friendship street.
	SIXTH WARD.	
JAMES F. FREEMAN,	. . . . .	No. 287 Washington avenue.
	SEVENTH WARD.	
*LEWIS J. PIERCE,	. . . . .	No. 79 Greenwich street.
	EIGHTH WARD.	
GILBERT R. PARKER,	. . . . .	No. 22 Pocasset avenue.
	NINTH WARD.	
BURMAH E. PERKINS,	. . . . .	No. 270 Knight street.
	TENTH WARD.	
WILLIAM H. COVELL,	. . . . .	No. 17 Armington avenue.

CLERK,
WILLIAM E. CLARKE,
No. 118 Williams street.

CITY SERGEANT,
T. FREDERICK CHASE,
No. 2 Poplar street.

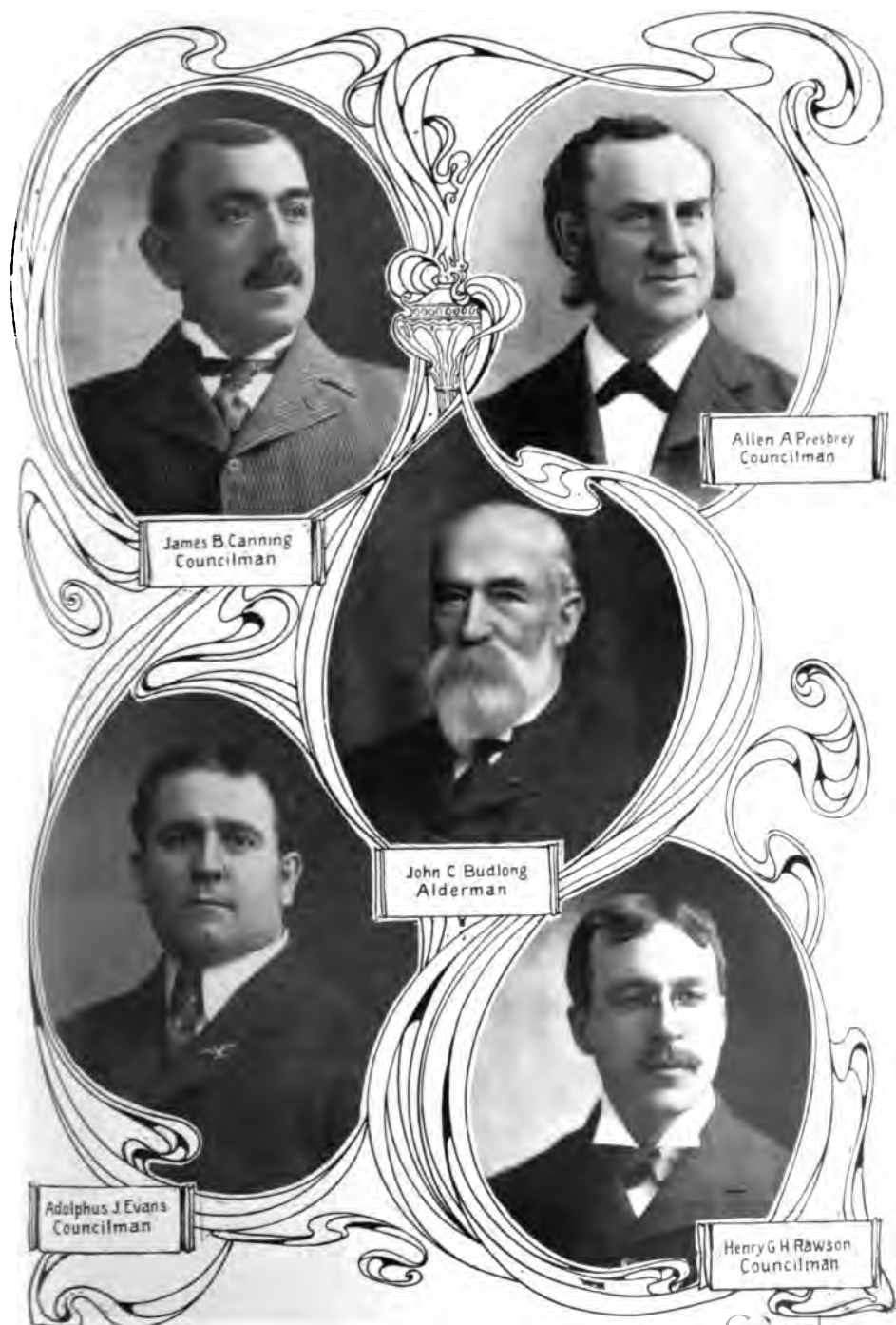
* Resigned January 14, 1904.

COMMON COUNCIL.

PRESIDENT.

JOHN E. KENDRICK.

FIRST WARD.	RESIDENCE.
JOSEPH BALCH,	No. 411 Brook street.
GEORGE W. PARKS,	No. 61 Cooke street.
G. RICHMOND PARSONS,	No. 276 George street.
CLIFFORD S. TOWER,	No. 121 Governor street.
SECOND WARD.	
EDWIN S. DARLING,	No. 130 Doyle avenue.
CHARLES R. MAKEPEACE,	No. 275 Wayland avenue.
GÉORGE P. PETERSON,	No. 260 Brown street.
CHARLES SISSON,	No. 458 Hope street.
THIRD WARD.	
JOHN I. DEVLIN,	No. 482 Douglas avenue.
JOHN C. DUNN,	No. 24 Vaughn street.
THOMAS J. FLYNN,	No. 82 Goddard street.
JAMES J. MCGOVERN,	No. 515 Smith street.
FOURTH WARD.	
JAMES B. CANNING,	No. 320 Orms street.
ADOLPHUS J. EVANS,	No. 163 Washington street.
ALLEN A. PRESBREY,	No. 131 Broadway.
HENRY G. H. RAWSON,	No. 113 Broadway.
FIFTH WARD.	
BEVERLY S. LAKE,	No. 27 Harvard avenue.
THOMAS H. LEONARD,	No. 437 Pine street.
J. WILLIAM MOORE,	No. 120 Moore street.
ROSWELL C. SMITH,	No. 115 Beacon avenue.



James B. Canning
Councilman

Allen A. Presbrey
Councilman

John C. Budlong
Alderman

Adolphus J. Evans
Councilman

Henry G. H. Rawson
Councilman

WARD FOUR.

SIXTH WARD.

GEORGE H. GRANT,	No. 102 Melrose street.
JOHN H. HIGGINS,	No. 22 Carlisle street.
JEREMIAH W. MILLER,	No. 58 Colfax street.
ROBERT C. ROOT,	No. 146 Melrose street.

SEVENTH WARD.

E. MERLE BIXBY,	No. 43 Hollis street.
HENRY FLETCHER,	No. 105 Parade street.
JAMES A. POTTER, JR.,	No. 351 Broad street.
WALTER A. PRESBREY,	No. 16 Woodman street.

EIGHTH WARD.

JOHN O. DARLING,	No. 113 Messer street.
HARRY DAW,	No. 148 Alverson avenue.
FREDERICK LITTLEFIELD,	No. 414 Killingly street.
EMERY J. SAN SOUCI,	No. 176 Webster avenue.

NINTH WARD.

HOWARD B. GORHAM,	No. 236 Knight street.
HENRY A. GRIMWOOD,	No. 15 Hammond street.
JOHN E. KENDRICK,	No. 433 Broadway.
BENJAMIN W. SPINK,	No. 243 Broadway.

TENTH WARD.

LAWRENCE J. COFFEY,	No. 47 Huron street.
DANIEL F. GRADY,	No. 1141 Chalkstone avenue.
JEREMIAH H. HALL,	No. 265 Academy avenue.
HENRY M. WINN,	No. 55 Kossuth street.

CLERK,

DANIEL F. HAYDEN,

No. 206 Doyle avenue.

JOINT STANDING COMMITTEES OF THE CITY COUNCIL.

FOR THE YEAR 1904.

ACCOUNTS.

BEVERLY S. LAKE, *Chairman.*

ROBERT C. ROOT,	HOWARD B. GORHAM,
EMERY J. SAN SOUCI,	WILLIAM K. REYNOLDS,
GEORGE P. PETERSON,	WILLIAM H. COVELL.

CITY ENGINEER'S DEPARTMENT.

AUGUSTUS S. MILLER,	Mayor.
JAMES F. FREEMAN,	President of the Board of Aldermen.
JOHN E. KENDRICK,	President of the Common Council.
WALTER A. PRESBREY,	Chairman of the Committee on Highways.
GEORGE P. PETERSON,	Chairman of the Committee on Sewers.
CHARLES R. MAKEPEACE,	Member of the Common Council.

RELIEF OF DISABLED FIREMEN AND POLICEMEN.

AUGUSTUS S. MILLER,	Mayor.
JOHN E. KENDRICK,	President of the Common Council.
JAMES F. FREEMAN,	Chairman of the Police Committee of the Board of Aldermen.
JOHN O. DARLING,	Chairman of the Joint Committee on the Fire Department.

CITY PROPERTY.

JEREMIAH H. HALL, *Chairman.*

ROSWELL C. SMITH,	WALTER A. PRESBREY,
GEORGE H. GRANT,	ABRAHAM A. GRAY.

CLAIMS.

HENRY FLETCHER, *Chairman.*

JAMES A. POTTER, JR.,	ADOLPHUS J. EVANS,
CLIFFORD S. TOWER,	DENNIS F. MCCARTHY.

EDUCATION.

ROSWELL C. SMITH, *Chairman.*

E. MERLE BIXBY,	CHARLES R. MAKEPEACE,
HENRY A. GRIMWOOD,	JAMES F. FREEMAN.

FINANCE.

GEORGE W. PARKS, *Chairman.*

J. WILLIAM MOORE,
BENJAMIN W. SPINK,

G. RICHMOND PARSONS
STEPHEN A. COOKE.

FIRE DEPARTMENT.

JOHN O. DARLING, *Chairman.*

DANIEL F. GRADY,
HARRY DAW,

THOMAS J. FLYNN,
BURMAH E. PERKINS.

HARBOR.

CHARLES SISSON, *Chairman.*

EDWIN S. DARLING,
HENRY M. WINN,

JAMES J. MCGOVERN,
GILBERT R. PARKER.

HIGHWAYS.

WALTER A. PRESBREY, *Chairman.*

THOMAS H. LEONARD,
HENRY A. GRIMWOOD,

HENRY FLETCHER,
ABRAHAM A. GRAY.

LIGHTS.

THOMAS H. LEONARD, *Chairman.*

E. MERLE BIXBY,
JEREMIAH W. MILLER,

EMERY J. SAN SOUCI,
DENNIS F. MCCARTHY.

NORTH BURIAL GROUND.

JAMES B. CANNING, *Chairman.*

LAWRENCE J. COFFEY,
ALLEN A. PRESBREY,

GEORGE W. PARKS,
WILLIAM K. REYNOLDS.

ORDINANCES.

JOSEPH BALCH, *Chairman.*

BEVERLY S. LAKE,
JOHN I. DEVLIN,

HOWARD B. GORHAM,
WILLIAM H. COVELL.

PARKS.

ROBERT C. ROOT, *Chairman.*

FREDERICK LITTLEFIELD,
CHARLES SISSON,

JOHN O. DARLING,
WILLIAM K. REYNOLDS.

PRINTING.

JOHN H. HIGGINS, *Chairman.*

GEORGE H. GRANT,

HENRY G. H. RAWSON,

FREDERICK LITTLEFIELD,

JOHN C. BUDLONG.

RAILROADS.

J. WILLIAM MOORE, *Chairman.*

BENJAMIN W. SPINK,

JEREMIAH W. MILLER,

HENRY G. H. RAWSON,

STEPHEN A. COOKE.

SEWERS.

GEORGE P. PETERSON, *Chairman.*

EDWIN S. DARLING,

JOHN O. DARLING,

HENRY M. WINN,

BURMAH E. PERKINS.

WATER.

JOHN C. DUNN, *Chairman.*

EMERY J. SAN SOU'CI,

LAWRENCE J. COFFEY,

JAMES A. POTTER, JR.,

LEWIS J. PIERCE.

CLERK OF COMMITTEES,

DANIEL F. HAYDEN.

Office, Clerk of Committees' Department, City Hall.



Beverly S. Lake
Councilman



J. William Moore
Councilman



William K. Reynolds
Alderman



Thomas H. Leonard
Councilman



Roswell C. Smith
Councilman

WARD FIVE.

**STANDING COMMITTEES OF THE BOARD OF
ALDERMEN.**

FOR THE YEAR 1904.

ARMORY,

BURMAH E. PERKINS, *Chairman.*

LEWIS J. PIERCE.

AUCTIONEERS.

WILLIAM K. REYNOLDS, *Chairman.*

LEWIS J. PIERCE.

BRIDGES.

BURMAH E. PERKINS, *Chairman.*

WILLIAM H. COVELL,

LEWIS J. PIERCE.

DAMAGE UNDER DOG LAW.

WILLIAM H. COVELL, *Chairman.*

WILLIAM K. REYNOLDS,

JOHN C. BUDLONG.

HACKNEY CARRIAGES.

JAMES F. FREEMAN, *Chairman.*

LEWIS J. PIERCE,

GILBERT R. PARKER.

HEALTH DEPARTMENT.

DENNIS F. MCCARTHY, *Chairman.*

WILLIAM K. REYNOLDS,

JOHN C. BUDLONG.

MILK.

ABRAHAM A. GRAY, *Chairman.*

STEPHEN A. COOKE,

JAMES F. FREEMAN.

POOR DEPARTMENT.**DENNIS F. MCCARTHY, *Chairman.*****BURMAH E. PERKINS,****JOHN C. BUDLONG.**

POLICE.**JAMES F. FREEMAN, *Chairman.*****BURMAH E. PERKINS,****WILLIAM K. REYNOLDS.**

STREETS.**ABRAHAM A. GRAY, *Chairman.*****DENNIS F. MCCARTHY,****GILBERT R. PARKER.**

STREET SIGNS AND NUMBERS.**WILLIAM H. COVELL, *Chairman.*****WILLIAM K. REYNOLDS,****LEWIS J. PIERCE**

CLERK OF BOARD OF ALDERMEN COMMITTEES.**WILLIAM E. CLARKE.**

**JOINT SPECIAL COMMITTEES OF THE CITY
COUNCIL.**

FOR THE YEAR 1904.

TO PURCHASE LAND FOR SEWERAGE PURPOSES.

[Under Resolution No. 524, series 1887. Common Council, January 7, 1889. Continued by Resolution No. 8, series 1904.]

AUGUSTUS S. MILLER, Mayor and Chairman.
WILLIAM H. COVELL, CHARLES F. SAMPSON.

PENDING SUITS.

[Under Resolution No. 9, series 1904.]

ALLEN A. PRESBREY, Chairman.
HENRY FLETCHER, DENNIS F. MCCARTHY,
JOHN H. HIGGINS, WILLIAM K. REYNOLDS,
G. RICHMOND PARSONS, WILLIAM H. COVELL.

**ABOLISHMENT OF GRADE CROSSING AT ACORN STREET
AND HARRIS AVENUE.**

[Under Resolution No. 147, series 1897. Continued by Resolution No. 8, series 1904.]

AUGUSTUS S. MILLER, Mayor and Chairman.
J. WILLIAM MOORE, WALTER F. SLADE.

NEW POST OFFICE BUILDING.

[Under Resolution No. 51, series 1900. Continued by Resolution No. 8, series 1904.]

JOHN E. KENDRICK, Chairman.
ADONIRAM J. CUSHING, WALTER B. VINCENT,
G. RICHMOND PARSONS, JAMES F. FREEMAN,
NATHAN M. WRIGHT, LEWIS J. PIERCE.

CELEBRATION OF FOURTH OF JULY.

[Under Resolution No. 20, series 1904.]

ROSWELL C. SMITH, Chairman.
ROBERT C. ROOT, JEREMIAH H. HALL,
JOSEPH BALCH, BURMAH E. PERKINS,
HENRY G. H. RAWSON, STEPHEN A. COOKE,
DENNIS F. MCCARTHY.

ON RAILROAD LEGISLATION.

[Under Resolution No. 67, 1900. Continued by Resolution No. 8, series 1904.]

JOHN E. KENDRICK, *Chairman.*

J. WILLIAM MOORE,
STEPHEN A. COOKE,
TIMOTHY F. DWYER,

WALTER B. VINCENT,
DENNIS F. MCCARTHY,
JAMES F. FREEMAN.

ON WIDENING OF ELMWOOD AVENUE.

[Under Resolution No. 413, 1903. Continued by Resolution No. 8, series 1904.]

JOHN H. HIGGINS, *Chairman.*

ROSWELL P. SMITH,
WALTER A. PRESBREY,

JOHN I. DEVLIN,
JAMES F. FREEMAN,
LEWIS J. PIERCE.

*RELATIVE TO A NEW THOROUGHFARE OF EASY GRADE TO
THE EAST SIDE.*

[Under Resolution No. 420, 1903. Continued by Resolution No. 8, series 1904.]

STEPHEN A. COOKE, *Chairman.*

ABRAHAM A. GRAY,
G. RICHMOND PARSONS,
JOHN E. KENDRICK,

JOSEPH BALCH,
WALTER A. PRESBREY,
CHARLES R. MAKEPEACE.

BUILDINGS OVER MOSHASSUCK RIVER.

[Under Resolution No. 91, 1901. Continued by Resolution No. 8, series 1904.]

STEPHEN A. COOKE, *Chairman.*

GEORGE W. PARKS,
CHARLES SISSON,

BENJAMIN W. SPINK,
WALTER B. VINCENT,
ABRAHAM A. GRAY.

TAXATION.

[Under Resolution No. 12, 1903. Continued by Resolution No. 8, series 1904.]

JOHN G. MASSIE, *Chairman.*

JOHN E. KENDRICK,
JOSEPH BALCH,

HENRY FLETCHER,
WILLIAM K. REYNOLDS.



SENATOR ANTHONY PRIZE FUND.

[Under Chapter 47, Revised Ordinances of 1899.]

AUGUSTUS S. MILLER, *Mayor and Chairman.*

JOHN E. KENDRICK.	President of the Common Council.
ROSWELL C. SMITH,	Chairman of Committee on Education.
FREDERICK RUECKERT,	President of the School Committee.
WALTER H. SMALL,	Superintendent of Public Schools.

CLERK OF COMMITTEES.**DANIEL F. HAYDEN.**

COMMISSIONS.

COMMISSIONER OF PUBLIC WORKS.

WALTER F. SLADE.

BOARD OF FIRE COMMISSIONERS.

IRA WINSOR, *Chairman.*

WILLIAM ANDREWS,

JAMES DAVIS.

PARK COMMISSIONERS.

FENNER H. PECKHAM, *Chairman.*

R. H. I. GODDARD,

WILLIAM A. WALTON.

COMMISSIONERS OF SINKING FUNDS.

AUGUSTUS S. MILLER, *Mayor and Chairman.*

JOHN G. MASSIE,

WALTER L. CLARKE, *ex-officio.*

CHARLES SYDNEY SMITH,

PHILIP S. CHASE, *ex-officio.*

EDWARD D. PEARCE,

GEORGE W. PARKS, *ex-officio.*

COMMISSIONERS OF DEXTER DONATION.

AUGUSTUS S. MILLER, *Mayor and Chairman.*

GEORGE W. R. MATTESON,

FREDERICK W. HARTWELL.

GEORGE E. MARTIN,

CHARLES SYDNEY SMITH,

CHARLES MATTESON.

COMMISSIONERS OF NORTH BURIAL GROUND.

WILLIAM K. REYNOLDS, *Chairman and Secretary.*

GEORGE L. PIERCE,

HENRY A. GRIMWOOD,

JAMES B. CANNING, *ex-officio.*

POLICE COMMISSIONERS.

WILLIAM H. LUTHER, *Chairman.*

GARDINER C. SIMS,

LEWIS J. PIERCE.

RECORD COMMISSIONERS.

HORATIO ROGERS, *Chairman.*

EDWARD FIELD, *Secretary.*

BOARD OF CANVASSERS AND REGISTRATION.

SAMUEL WHITELEY, *Chairman.*

CHARLES E. SMITH, *Secretary,* JOSEPH P. CANNING.

*BOARD OF APPEAL FROM THE ACTIONS OR DECISIONS OF
THE INSPECTOR OF BUILDINGS.*

[Appointed by the Mayor under Chapter 106 of the General Laws.]

ABRAHAM A. GRAY, *Chairman.*

GEORGE F. HALL,

THOMAS F. GILBANE,

WILLIAM E. CLARKE, *Clerk.*

**Alphabetical List of Members of the City Council, Together
With a List of Their Respective Committees.**

Aldermen.**Committees.**

JAMES F. FREEMAN, *President.*

Joint Committees—City Engineer's Department, Education,
Relief of Disabled Firemen and Policemen.

Board of Aldermen—Hackney Carriages, Milk, Police.

Joint Special—New Post Office Building, Railroad Legisla-
tion, widening Elmwood Avenue.

BURMAH E. PERKINS, *President pro tempore.*

Joint Committees—Fire Department and Sewers.

Board of Aldermen—Armories, Bridges, Poor Department,
Police.

Joint Special—Celebration Fourth of July.

BUDLONG, JOHN C.

Joint Committee—Printing.

Board of Aldermen—Damage under Dog Law, Health De-
partment, Poor Department.

COOKE, STEPHEN A.

Joint Committees—Finance, Railroads.

Board of Aldermen—Milk.

Joint Special—Railroad Legislation, Buildings over Moshas-
suck River, Celebration Fourth of July, New Thoroughfare
to East Side.

COVELL, WILLIAM H.

Joint Committees—Accounts and Ordinances.

Board of Aldermen—Bridges, Damage under Dog Law, Street
Signs and Numbers.

Joint Special—Purchase of Land for Sewerage Purposes.
Pending Suits.

GRAY, ABRAHAM A.

Joint Committees—City Property, Highways.

Board of Aldermen—Milk, Streets.

Joint Special—Buildings over Moshassuck River, New Thor-
oughfare to East Side.



WARD SEVEN.

Aldermen.

Committees.

McCARTHY, DENNIS F.

Joint Committees—Claims, Lights.

Board of Aldermen—Health Department, Poor Department, Streets.

Joint Special—Pending Suits, Railroad Legislation, Celebration of Fourth of July.

PARKER, GILBERT R.

Joint Committee—Harbor.

Board of Aldermen—Hackney Carriages, Streets.

PIERCE, LEWIS J.

Joint Committee—Water.

Board of Aldermen—Armories, Auctioneers, Bridges, Hackney Carriages, Street Signs and Numbers.

Joint Special—New Post Office Building, Widening of Elmwood Avenue.

REYNOLDS, WILLIAM K.

Joint Committees—Accounts, North Burial Ground, Parks.

Board of Aldermen—Auctioneers, Damage under Dog Law, Health Department, Street Signs and Numbers, Police.

Joint Special—Pending Suits, Taxation.

Councilmen.

Committees.

KENDRICK, JOHN E., *President*.

Joint Committees—City Engineer's Department, Relief of Disabled Firemen and Policemen.

Joint Special—New Post Office Building, Railroad Legislation, Taxation, New Thoroughfare to East Side.

Special—Senator Anthony Prize Fund.

BALCH, JOSEPH

Joint Committee—Ordinances.

Joint Special—Fourth of July, New Thoroughfare to East Side, Taxation.

Councilmen.

Committees.

BIXBY, E. MERLE*Joint Committees*—Education, Lights.**CANNING, JAMES B.***Joint Committees*—North Burial Ground, Water.**COFFEY, LAWRENCE J.***Joint Committees*—North Burial Ground, Water.**DARLING, EDWIN S.***Joint Committees*—Harbor, Sewers.**DARLING, JOHN O.***Joint Committees*—Fire Department, Parks, Relief of Disabled Firemen and Policemen, Sewers.**DAW, HARRY***Joint Committee*—Fire Department.**DEVLIN, JOHN I.***Joint Committee*—Ordinances.*Joint Special*—Widening Elmwood Avenue.**DUNN, JOHN C.***Joint Committee*—Water.**EVANS, ADOLPHUS A.***Joint Committee*—Claims.**FLETCHER, HENRY***Joint Committees*—Claims, Highways.*Joint Special*—Pending Suits, Taxation.**FLYNN, THOMAS J.***Joint Committee*—Fire Department.**GORHAM, HOWARD B.***Joint Committees*—Accounts, Ordinances.

Councilmen.

Committees.

GRADY, DANIEL F.

Joint Committee—Fire Department.

GRANT, GEORGE H.

Joint Committees—City Property, Printing.

GRIMWOOD, HENRY A.

Joint Committees—Education, Highways.

HALL, JEREMIAH H.

Joint Committee—City Property.*Joint Special*—Fourth of July.

HIGGINS, JOHN H.

Joint Committee—Printing.*Joint Special*—Pending Suits, Widening Elmwood Avenue.

LAKE, BEVERLY S.

Joint Committees—Accounts, Ordinances.

LEONARD, THOMAS H.

Joint Committees—Highways, Lights.

LITTLEFIELD, FREDERICK

Joint Committees—Parks, Printing.

MAKEPEACE, CHARLES R.

Joint Committees—City Engineer's Department, Education.*Joint Special*—New Thoroughfare to East Side.

MCGOVERN, JAMES J.

Joint Committee—Harbor.

MULLER, JEREMIAH W.

Joint Committers—Lights, Railroads.

MOORE, J. WILLIAM

Joint Committees—Finance, Railroads.*Joint Special*—Abolishment of Grade Crossing at Acorn Street,
Railroad Legislation.

Councilmen.

Committees.

PARKS, GEORGE W.

Joint Special—Finance, North Burial Ground.

Joint Special—Buildings over Moshassuck River.

PARSONS, G. RICHMOND

Joint Committee—Finance.

Joint Special—New Post Office Building, New Thoroughfare to East Side, Pending Suits.

PETERSON, GEORGE P.

Joint Committees—Accounts, City Engineer's Department, Sewers.

POTTER, JAMES A., JR.

Joint Committees—Claims, Water.

PRESBRY, ALLEN A.

Joint Committee—North Burial Ground.

Joint Special—Pending Suits.

PRESBRY, WALTER A.

Joint Committees—City Engineer's Department, City Property, Highways.

Joint Special—Widening Elmwood Avenue, New Thoroughfare to East Side.

RAWSON, HENRY G. II.

Joint Committees—Printing, Railroads.

Joint Special—Fourth of July.

ROOT, ROBERT C.

Joint Committees—Accounts, Parks.

Joint Special—Fourth of July.

SAN SOUCL, EMERY J.

Joint Committees—Accounts, Lights, Water.

SISSON, CHARLES.

Joint Committees—Harbor, Parks.

Joint Special—Buildings over Moshassuck River.



John O. Darling
Councilman

Frederick Littlefield
Councilman

Gilbert R. Parker
Alderman

Harry Daw
Councilman

Emory San Souel
Councilman

WARD EIGHT.

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Councilmen.

Committees.

SMITH, ROSWELL C.

Joint Committees—City Property, Education.

Joint Special—Fourth of July, Widening Elmwood Avenue.

Special—Senator Anthony Prize Fund.

SPINK, BENJAMIN W.

Joint Committees—Finance, Railroads.

Joint Special—Buildings over Moshassuck River.

TOWER, CLIFFORD S.

Joint Committee—Claims.

WINN, HENRY M.

Joint Committees—Harbor, Sewers.

CITY OFFICERS
ELECTED BY THE PEOPLE.

MAYOR,
AUGUSTUS S. MILLER.

CITY TREASURER,
WALTER L. CLARKE.

HARBOR MASTER,
JOHN H. MAGUIRE.

OVERSEER OF THE POOR,
MATTHEW J. CUMMINGS.

CITY OFFICERS

ELECTED BY THE CITY COUNCIL IN CONVENTION.

[The term of office is for one year ensuing the first Monday in January, 1904, unless otherwise specified.]

CITY CLERK.

William E. Clarke.

JUDGE OF THE MUNICIPAL COURT.

Joseph E. Spink.

CLERK OF THE MUNICIPAL COURT.

Edward Field.

RECORDER OF DEEDS.

Edward C. Joyce.

CITY AUDITOR.

Philip S. Chase.

SUPERINTENDENT OF PUBLIC BUILDINGS.

Henry R. Evans.

CITY SERGEANT.

T. Frederick Chase.

SUPERINTENDENT OF HEALTH.

[For three years from first Monday in January, 1902.]

Charles V. Chapin.

SEALER OF WEIGHTS AND MEASURES.

Louis B. Jones.

INSPECTOR OF BUILDINGS.

[For two years from first Monday in January, 1904.]

Spencer B. Hopkins.

INSPECTOR OF PLUMBING.

[For two years from July 1, 1903.]

Reuben S. Bemis.

PRESIDENTS OF THE FIRE DEPARTMENT.

Ira Winsor,

George A. Steere.

John W. Tillinghast.

COMMISSIONERS OF THE NORTH BURIAL GROUND.

William K. Reynolds,

George L. Pierce.

Henry A. Grimwood.

CLERK OF THE MARKET.

Frank A. Matthews.

VIEWER OF FENCES.

Jonathan G. Parkhurst.

OVERSEERS OF THE HOSPITAL.

Mayor and Aldermen.

INSPECTOR OF KEROSENE.

George P. Cressy.

POUND KEEPER AT THE ASYLUM.

John T. Brown.

POUND KEEPER IN THE SEVENTH WARD.

Stephen Watson.

POUND KEEPER IN THE TENTH WARD.

William B. Hazard.

PORT WARDENS.

Prentiss O. Hooper,

Thomas Gardner.

Nathan A. Briggs.



Howard B. Garham
Councilman



John E. Kendrick
Councilman



Burnah E. Perkins
Alderman



Henry A. Grimwood
Councilman



Benjamin W. Perkins
Councilman

PUBLIC ADMINISTRATORS.

(Passed.)

PACKERS OF FISH.

Martin Dewing,

Owen F. O'Rourke.

William E. Higgins.

INSPECTOR OF POT AND PEARL ASHES.

Dutree Arnold.

INSPECTOR OF SALERATUS AND BI-CARBONATE OF SODA.

George L. Pierce.

INSPECTOR OF CHAIN CABLES.

Jeremiah W. Miller.

INSPECTOR OF BEEF AND PORK.

William J. Beane.

SEALER OF LEATHER.

(Passed.)

VIEWER OF HOOPS.

John F. O'Brien.

SURVEYORS AND CORDERS OF WOOD.

Judson Davis,

William A. H. Grant.

E. O. Mathewson,

Byron W. Wells.

George F. A. Beane.

SURVEYOR AND MEASURER OF STONE.

James Warren, Jr.

INSPECTOR AND MEASURER OF CARPENTERS', MASONS', AND PAINTERS' WORK.

Thomas F. Galligan.

MEASURERS OF GRAIN, SALT, AND SEA COAL.

(Passed.)

CITY WEIGHER.

Charles D. Cobb.

WEIGHERS OF COTTON.

William J. O'Brien,
George W. Ray,Joseph F. Schellinger,
Harry A. Scribner.

CITY GAUGER.

James Moran.

DEPUTY GAUGER.

[Appointed by the Gauger, with the approval of the City Council.]

John F. O'Brien.

JUSTICES OF THE POLICE COURT.

[Elected by concurrent vote.]

Richard E. Lyman,

James A. Pirce.

CITY SOLICITOR.

[Elected by concurrent vote for three years from May, 1903.]

Francis Colwell.

APRAISERS OF DAMAGE UNDER THE DOG LAW.

[Elected April 2, 1903. See Chapter 111, General Laws.]

Frederick W. Otto,
James A. Boutelle,Jonathan G. Parkhurst,
Harry J. Bascom.

ASSESSORS OF TAXES.

[Elected first Monday in February.]

Walter W. Burnham to February, 1907.
 Elisha H. Rhodes to February, 1906.
 Arthur H. Armington to February, 1905.

SURVEYOR OF LUMBER.

[Elected in February, 1904.]

Clarence H. Carpenter.

CITY OFFICERS.

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DEPUTY SURVEYORS OF LUMBER.

[Appointed by Surveyor, with approval of the City Council.]

Frank B. Chedell.

Roscoe L. Phillips,

Charles A. Manchester,

L. O. Roberts,

William E. Lawton,

Charles A. Ward.

SPECIAL CONSTABLES UNDER THE BIRD LAW.

[Appointed April 7, 1902, under Chapter 112 of the General Laws.]

Oscar H. Aldrich,

William M. Murray,

Walter J. Potter.

BOARD OF CANVASSERS AND REGISTRATION.

[Elected first Monday in March.]

Joseph P. Canningto March, 1904.

Samuel Whiteleyto March, 1905.

Charles E. Smithto March, 1906.

COMMISSIONERS

ELECTED BY THE CITY COUNCIL.

COMMISSIONERS OF SINKING FUNDS.

AUGUSTUS S. MILLER, Mayor, *ex-officio*.Walter L. Clarke, City Treasurer, *ex-officio*.Philip S. Chase, City Auditor, *ex-officio*.George W. Parks, Chairman Finance Committee, *ex-officio*.

[Elected by concurrent vote.]

Charles Sydney Smithto January, 1905.

Edward D. Pearceto January, 1906.

John G. Massieto January, 1907.

PARK COMMISSIONERS.

[Elected by concurrent vote in May.]

R. H. I. Goddard.....until first Monday in May, 1906.

Fenner H. Peckhamuntil first Monday in May, 1905.

William A. Waltonuntil first Monday in May, 1904.

FIRE COMMISSIONERS.

[Elected in Convention on first Monday in January.]

Ira Winsoruntil first Monday in January, 1906.

William Andrewsuntil first Monday in January, 1905.

James Davisuntil first Monday in January, 1905.

APPOINTED BY THE MAYOR.

COMMISSIONER OF PUBLIC WORKS.

[Appointed by the Mayor under Chapter 869 of the Public Laws.]

Walter F. Sladeuntil first Monday in March, 1906.

POLICE COMMISSIONERS.

[Appointed by the Governor under Chapter 930 of the Public Laws, passed November 22, 1901.]

Gardiner C. Sims.....until February 1, 1904.

Lewis J. Pierceuntil February 1, 1905.

William H. Lutheruntil February 1, 1906.



Lawrence J. Coffey
Councilman



Jeremiah H. Hall
Councilman



William H. Covell
Alderman



Daniel F. Grady
Councilman



Henry M. Wynn
Councilman

CITY OFFICERS

ELECTED BY THE BOARD OF ALDERMEN.

PRESIDENT OF THE BOARD OF ALDERMEN.

James F. Freeman.

PRESIDENT PRO TEMPORE.

Burmah E. Perkins.

CITY REGISTRAR OF BIRTHS, MARRIAGES, AND DEATHS.

Charles V. Chapin.

INSPECTOR OF PROVISIONS.

William J. Beane.

INSPECTOR OF STEAM BOILERS.

Charles E. Doyle.

SUPERVISING ENGINEER UNDER SMOKE NUISANCE ACT.

Horace E. Chadwick.

SUPERINTENDENT OF BURIAL OF DECEASED SOLDIERS AND SAILORS.

William Frankland.

QUARANTINE SENTINEL.

Edward Grogan.

AUCTIONEERS:

Daniel Ahearn,
George S. Baker,
C. Edward Barney,
Samuel Bernheim,
George H. Burnham,
Patrick F. Canning,
Henry W. Cooke,
Walter F. Crowell,
Edwin Draper,
Charles L. Ellis,
David Frank,
James F. Freeman,
Herbert D. Goff,

Isaac L. Goff,
Henry A. Greene,
Harold J. Gross,
William H. Herrick,
James H. Hurley,
James R. Jenkins,
Arnold A. Manchester,
Edward J. McCabe,
George L. Robinson,
William S. Todd,
Robert L. Walker,
John M. Whan.

UNDERTAKERS.

John F. Armstrong,
 Myers R. Armstrong,
 A. Herbert Arnold,
 Charles E. Barber,
 Charles Bjorkholm,
 Frank S. Boyce,
 Henry J. Boyce,
 John T. Brown,
 Arthur J. Carpenter,
 J. Will Carpenter,
 Robert F. Carroll,
 Fred G. Chadbourne,
 Clarence O. Chase,
 John J. Coutanche,
 William A. Davis,
 Angelo R. DePasquale,
 John Dilorio,
 Irving H. Drabble,
 John H. Drury,
 Domenico Ferrara,
 James R. Fuller,
 Tomaso Gatone,
 Daniel Gorman,
 John S. Hughes,
 Robert F. Jones,
 John E. Keefe,
 Malachi A. Kelly,
 Frank Kilgore,
 Patrick King,
 Ellmer F. Knowles,
 Horace E. Knowles,

Morris Lynch,
 Antonio A. Mariani,
 Thomas McCabe,
 Dennis F. McCarthy,
 J. F. J. McCarthy,
 Patrick McMurrrough,
 Alvord O. Miles,
 Thomas F. Monahan,
 John C. Nichols,
 Charles L. Perry,
 Thomas Quinn,
 Frank E. Randall,
 Henry A. Remington,
 Joseph O. Ricard,
 Nestor Ricard,
 Robert B. Risk,
 Roswell Roles,
 C. Ryan,
 Varnum Steere,
 Louis Sugarman,
 John F. Tanner,
 Thomas Toye,
 Emory B. Turner,
 J. B. Trottier,
 Frank R. Wallace,
 George Warren Wallace,
 John H. Walsh,
 James Warren, Jr.,
 Frank M. Whipple,
 William E. Whiting.

WEIGHERS OF COAL AND OTHER MERCHANDISE.

George F. A. Beane,
 William A. H. Grant,
 George F. Mayno,
 Thomas McNiff,
 Harold W. Nichols,
 Joe Moss,

Charles F. Pierce,
 William E. Pollard,
 Alfred W. Purvere,
 Thomas Walsh,
 John Wilkinson,
 William Wooley.

INSPECTOR OF MILK.

[Elected August, 1903.]

Walter O. Scott.

CORONER.

[Elected for three years from first Monday in July, 1902.]

Eugene H. Lincoln.

FIRE MARSHAL.

(Passed.)

SUPERINTENDENT AND MATRON OF THE DEXTER ASYLUM.

[Elected June, 1903.]

John T. Brown.

Mary A. Brown.

WEIGHERS OF NEAT CATTLE.

[Appointed April, 1903.]

**Emery N. Bixby,
Edward L. Coffin,
Everett C. Dunham.**

**Simon K. Goff,
Charles C. Hall,
Edward H. Sweet.**

REPRESENTATIVES TO THE GENERAL ASSEMBLY.

[Elected by the people November, 1903.]

SENATOR.

James H. Thurston.

REPRESENTATIVES.

- | | |
|---------------------------|---------------------------|
| 1. Edward J. Sullivan. | 7. Timothy J. Myers. |
| 2. Edward D. V. O'Connor. | 8. Samuel E. Groves. |
| 3. Thomas F. Galligan. | 9. Joseph A. Miller, Jr., |
| 4. Samuel E. Daubney. | 10. Martin B. Birmingham. |
| 5. Daniel E. Colton. | 11. John C. Lyons. |
| 6. Louis D. Angell. | 12. Albert H. Olney. |

EXECUTIVE DEPARTMENT.

MAYOR.

AUGUSTUS S. MILLER,

Residence, No. 194 Elmwood Avenue.

MAYOR'S CLERK.

CHRISTOPHER W. O'BRIEN.

MESSENGER.

WILLIAM M. A. McELROY.

OFFICE HOURS.

9 o'clock A. M. to 5 o'clock P. M.

From 11 o'clock A. M. to 1 o'clock P. M. the Mayor will give his attention to the transaction of general official business.

CITY CLERK'S DEPARTMENT.

CITY CLERK.

WILLIAM E. CLARKE,

Residence, 118 Williams Street.

DEPUTY CITY CLERK.

ARTHUR B. SPINK.

ASSISTANTS.

GEORGE C. CLINTON, (Passed.)

ANNIE E. EDWARDS.

RECORDS.

The City Clerk is the keeper of the city seal and seal of the Board of Aldermen; also of the files, papers, and records of the City Council, Board of Aldermen, and Board of Health.

COMMISSIONS.

Commissions are issued by the City Clerk to all City Officers elected by the people, City Council, and Board of Aldermen.

Section 8. of Chapter 30 of the Revised Ordinances of 1899, provides as follows:

"Every person except port wardens, elected to office as aforesaid, shall within thirty days after the date of his commission, duly engage himself to the faithful performance of the duties of his office before the City Clerk, who shall keep a record thereof. Port Wardens, as required by Statute, shall engage themselves before the Mayor."

JOINT COMMITTEE ON PRINTING.

JOHN H. HIGGINS, *Chairman.*

GEORGE H. GRANT,

HENRY G. H. RAWSON,

FREDERICK LITTLEFIELD.

JOHN C. BUDLONG,

WILLIAM E. CLARKE, *Secretary.*

FINANCIAL DEPARTMENT.

[See Revised Ordinances, Chapter 12.]

CITY TREASURER.

WALTER L. CLARKE,

Residence, No. 21 Harkness Street.

DEPUTY CITY TREASURER.

EARL P. MASON.

ASSISTANTS.

THOMAS C. GUSHEE,
WILLIAM H. WORRALL,
DANIEL F. O'REILLEY,
SUSIE E. PARSONS,JANE C. McCORMACK,
SAMUEL B. BURNHAM,
ROYAL G. BABCOCK,
THOMAS F. LITTLE.

EDGAR D. DOW.

PAYMASTER.

JOHN P. WALSH.

CITY AUDITOR.

PHILIP S. CHASE,

JOINT COMMITTEE ON FINANCE.

GEORGE W. PARKS, *Chairman*.J. WILLIAM MOORE,
BENJAMIN W. SPINK,G. RICHMOND PARSONS,
STEPHEN A. COOKE.

COMMISSIONERS OF SINKING FUNDS.

[See Revised Ordinances, Chapter 51; also Chapter 112, 1901.]

AUGUSTUS S. MILLER, *Mayor and Chairman*.CHARLES SYDNEY SMITH,
EDWARD D. PEARCE,
JOHN G. MASSIE.WALTER L. CLARKE,
GEORGE W. PARKS,
PHILIP S. CHASE, *Secretary*.

AUDITOR'S DEPARTMENT.

[See Revised Ordinances, Chapter 12.]

CITY AUDITOR.

PHILIP S. CHASE,

Residence, No. 219 Waterman Street.

ASSISTANTS.

LOUIE R. MAGOON.

JOSEPH BUCKLIN,

HERBERT J. BRIGGS.

JOINT COMMITTEE ON ACCOUNTS.BEVERLY S. LAKE, *Chairman*.

ROBERT C. ROOT,

GEORGE P. PETERSON.

HOWARD B. GORHAM,

WILLIAM K. REYNOLDS.

EMERY J. SAN SOUCL,

WILLIAM H. COVELL.

All bills against the City of Providence must be certified by the several officers or committees contracting the same, and deposited with the City Auditor, on or before the *tenth* of each month.

As the committee on accounts will meet but once a month during the year 1904, it will be necessary for all departments to comply with the foregoing instructions, to avoid delay in the settlement of bills.

All bills or accounts against the City of Providence, that have been allowed by the committee on accounts, will be settled at the office of the City Auditor on the *twentieth* of each month. When the twentieth comes on Sunday, payments will be made on the twenty-first of the month.

CLERK OF THE COMMON COUNCIL AND CLERK OF COMMITTEES DEPARTMENT.

Office, rooms on the second floor adjoining the Common Council Chamber.

[See Revised Ordinances, Chapter 30.]

CLERK.

DANIEL F. HAYDEN,

Residence, No. 206 Doyle Avenue.

ASSISTANT.

THOMAS G. BRADSHAW.

CITY SERGEANT'S DEPARTMENT.

CITY SERGEANT.

T. FREDERICK CHASE,

Residence, 2 Poplar Street.

ASSISTANTS.

HIRAM G. ROOT,

E. LEONARD CREES.

POLICE OFFICERS.

JAMES L. SHERMAN,

RICHARD A. CLARKE.

CITY HALL.

[See Revised Ordinances, Chapter 30.]

The City Sergeant has the care and superintendence of the City Hall. The building is open at 9 o'clock A. M. every day except Sundays and legal holidays, and closed at 5 o'clock P. M. on all week days except Saturdays, when it is closed at 12 o'clock M.

Janitor,

ABRAHAM L. RIDER.

Engineer,

GEORGE W. BRAYMON.

Night Watchman,

EDWARD J. BURKE.

Elevator Conductor,

GEORGE S. HARRIS.

ASSISTANT JANITORS.

WALTER D. ALEXANDER,

FRANCIS M. MITCHELL,

LEWIS K. PIERCE,

ELMER B. ARMSTRONG.

LAND RECORDS.

RECORDER OF DEEDS.

EDWARD C. JOYCE,

Residence, No. 32 Elmgrove Avenue.

ASSISTANTS.

IDA W. BARNES.

ALICE E. BARRUS,

LUCY M. WARREN,

FLORENCE A. JOYCE,

JENNIE F. SWEET,

CAROLINE E. BATES,

ALICE G. TOYE.

JONATHAN HARTLEY.

ASSESSMENT OF TAXES.

BOARD OF ASSESSORS.

ELISHA H. RHODES, *Chairman*.ARTHUR H. ARMINGTON, *Secretary*. WALTER W. BURNHAM.

ASSISTANTS.

CHARLES B. TOYE,

LUNELLE L. ALDRICH,

H. EUGENE CLARKE,

EUGENE W. SMITH.

NATHANIEL F. PATTEN.

LAW DEPARTMENT.

[See Revised Ordinances, Chapter 30.]

CITY SOLICITOR.

FRANCIS COLWELL,

Office hours from 11 A. M. to 1 o'clock P. M.

ASSISTANTS.

ALBERT A. BAKER,

HENRY C. CRAM.

JOINT COMMITTEE ON ORDINANCES.

JOSEPH BALCH, *Chairman*.

JOHN I. DEVLIN,

BEVERLY S. LAKE,

HOWARD B. GORHAM,

WILLIAM H. COVELL.

CITY COURTS.

MUNICIPAL COURT.

[See Revised Ordinances, Chapter 28.]

JUDGE.

JOSEPH E. SPINK,

Residence, No. 150 South Angell Street.

CLERK.

EDWARD FIELD,

Residence, No. 13 Portland Street.

ASSISTANTS.

ADA G. JOHNSON,
MABEL E. TROW,

BERTHA E. BARRETT,
FLORENCE G. EGAN.

CITY SERGEANT.

T. FREDERICK CHASE.

The Municipal Court is held in the City Hall on Tuesday of each week at 9 o'clock A. M., for transacting probate business only, except in the months of July and August, when said Court is held on the second and fourth Tuesdays in said months.

POLICE COURT.

[See Revised Ordinances, Chapter 37.]

Held daily at 8 o'clock A. M. at the Central Police Station.

JUSTICES.

RICHARD E. LYMAN,

JAMES A. PIRCE.

CITY SOLICITOR.

FRANCIS COLWELL.

ASSISTANTS.

ALBERT A. BAKER,

HENRY C. CRAM.

HEALTH DEPARTMENT.

SUPERINTENDENT OF HEALTH.

CHARLES V. CHAPIN, M. D.

CLERK.

FLORENCE R. BOWEN.

MEDICAL INSPECTOR.

EUGENE P. KING, M. D.

SANITARY INSPECTOR.

WALTER J. LEWIS.

INSPECTOR OF PROVISIONS.

WILLIAM J. BEANE.

CHIEF OF VACCINATION STAFF.

CHARLES H. LEONARD, M. D.

AMBULANCE DRIVER.

GEORGE A. WIEHE.

BOARD OF HEALTH.

AUGUSTUS S. MILLER, *Mayor*.

STEPHEN A. COOKE,

ABRAHAM A. GRAY,

DENNIS F. MCCARTHY,

JOHN C. BUDLONG,

WILLIAM K. REYNOLDS,

JAMES F. FREEMAN,

GILBERT R. PARKER,

LEWIS J. PIERCE,

BURMAH E. PERKINS,

WILLIAM H. COVELL.

WILLIAM E. CLARKE, *Clerk*.T. FREDERICK CHASE, *City Sergeant*.

COMMITTEE ON HEALTH DEPARTMENT.

DENNIS F. MCCARTHY, *Chairman*.

WILLIAM K. REYNOLDS.

JOHN C. BUDLONG.

QUARANTINE SENTINEL.

EDWARD GROGAN.

VACCINATION.

Vaccination is free to all residents of the city, at the Ward Room on Fountain street, every Friday, from 2 to 3 o'clock P. M.

RECORDS OF BIRTHS. MARRIAGES,
AND DEATHS.

CITY REGISTRAR.

CHARLES V. CHAPIN,

CLERKS.

M. JOSEPHINE PECKHAM, MAUDE S. S. JALBERT,
GRACE I. MEAD.

MARRIAGES.

Marriage certificates are issued by the City Registrar under Chapter 191 of the General Laws.

BOARD OF CANVASSERS AND REG-
ISTRATION.

[See Chapter 8 of the General Laws, and Chapter 363, Public Laws.]

SAMUEL WHITELEY, *Chairman*.

CHARLES E. SMITH, *Secretary*, JOSEPH P. CANNING.

ASSISTANTS.

TELESFOR STAHL,

ALBERT A. WALKER.

REGISTRY OF VOTERS.

All persons who may be qualified to vote upon being registered are required to register their names *personally* on or before the last day in June in each year, in the "Registry Book" in the office of the Board of Canvassers and Registration.

POOR DEPARTMENT.

[See Revised Ordinances, Chapter 38.]

OVERSEER OF THE POOR.**MATTHEW J. CUMMINGS,**

Office, Charity Building, No. 616 Eddy Street.

CLERKS.**EUGENE A. McGOUGH,****MARY J. BENSON,****KATHRIN McKENNA.****MATRON OF CHARITY BUILDING.****LIZZIE M. CUMMINGS.****SUPERINTENDENT OF WOOD YARD.****MICHAEL R. CARROLL.****COMMITTEE ON POOR DEPARTMENT.****DENNIS F. MCCARTHY, *Chairman.*****BURMAH E. PERKINS,****JOHN C. EUDLONG.**

DEXTER ASYLUM.

[Under the care of the Mayor and Board of Aldermen.]

SUPERINTENDENT.

JOHN T. BROWN,

MATRON.

MARY A. BROWN.

CHAPLAIN.

REV. SAMUEL H. WEBB.

ATTENDING PHYSICIANS.

CLARENCE M. GODDING,

EDWARD S. BACON.

CONSULTING PHYSICIANS.

JAMES W. C. ELY,

GEORGE D. HERSEY.

COMMISSIONERS OF THE DEXTER DONATION.

[Elected, with the exception of the Mayor, in town meeting, December 19, 1903.]

AUGUSTUS S. MILLER,

FREDERICK W. HARTWELL,

GEORGE W. R. MATTESON,

CHARLES SYDNEY SMITH,

GEORGE E. MARTIN,

CHARLES MATTESON.

WILLIAM E. CLARKE, *Secretary, ex-officio.*

PHILIP S. CHASE, *Auditor, ex-officio.*

PUBLIC BUILDINGS.

[See Revised Ordinances, Chapter 30.]

SUPERINTENDENT OF PUBLIC BUILDINGS.

HENRY R. EVANS,

Residence, No. 288 Broadway.

Hours of Superintendent from 9 to 9.30 A. M., and 1.30 to 2.30 P. M.

CLERK.

LOUIS E. CADY.

JOINT COMMITTEE ON CITY PROPERTY.

JEREMIAH H. HALL, *Chairman.*

ROSWELL C. SMITH,

WALTER A. PRESBREY.

GEORGE H. GRANT,

ABRAHAM A. GRAY.

NORTH BURIAL GROUND.

[See Revised Ordinances, Chapter 29.]

SUPERINTENDENT.

JAMES WARREN, JR.

CLERKS.

JOHN A. THOMPSON,

JOHN W. MCKNIGHT.

COMMISSIONERS OF THE NORTH BURIAL GROUND.

WILLIAM K. REYNOLDS, *Chairman and Secretary.*

GEORGE L. PIERCE,

HENRY A. GRIMWOOD,

JAMES B. CANNING, *ex-officio.*

JOINT COMMITTEE ON THE NORTH BURIAL GROUND.

JAMES B. CANNING, *Chairman.*

LAWRENCE J. COFFEY,

GEORGE W. PARKS,

ALLEN A. PRESBREY,

WILLIAM K. REYNOLDS.

DEPARTMENT OF PUBLIC WORKS.

[See Chapters 815, 444, 529, 530, 677, and 869 of the Public Laws, 1890, and Chapter 41 of the Revised Ordinances, also Chapter 70 of the City Ordinances, 1900.]

COMMISSIONER OF PUBLIC WORKS.

WALTER F. SLADE.

SECRETARY.

HERBERT E. WOOD.

CHIEF CLERK.

LEONARD N. AUSTIN.

CLERKS.

JESSE W. COLEMAN,
ALFRED H. TABER,
ERNEST A. CHASE,
ALMON C. BURNHAM,

CHRISTOPHER B. PEARSE,
CHARLES F. WINSOR,
ROBERT O. SMITH,
ARTHUR SELLEW,

JAMES A. BURNS.

BOOKKEEPER.

ORNAM L. PATT, JR.

INSPECTORS OF WATER FIXTURES.

FRED A. ARNOLD,
ALBERT C. WINSOR,
GILBERT WILSON,

WILLIAM W. DOW,
DWIGHT A. STRICKLAND,
HARRY O. WHEELER.

IN CHARGE OF SERVICE STOPS.

WILLIAM F. JANES.

SUPERINTENDENT OF DISTRIBUTION OF WATER.

WILLIAM H. PATTERSON.

SUPERINTENDENT OF PETTACONSETT AND SOCKANOSSETT.

GEORGE B. ARNOLD.

KEEPER OF SOCKANOSSETT RESERVOIR.

HERBERT U. DURFEE.

KEEPER OF HOPE RESERVOIR.

EBEN BURLINGAME.

KEEPER OF FRUIT HILL RESERVOIR.

GEORGE M. HALL.

PUMPING ENGINEERS, PETTACONSETT STATION.

WILLIAM HARRY,

THOMAS H. WEBB.

PUMPING ENGINEER, HOPE STATION.

JOSEPH F. PLANT.

SUPERINTENDENT OF HIGHWAYS.

J. HENRY FIELD.

SUPERINTENDENT OF CLEANING AND REPAIRING SEWERS.

ALLEN ALDRICH.

SUPERINTENDENT AND CHEMIST AT PRECIPITATION TANK.

JULIUS W. BUGBEE.

INSPECTORS OF PRIVATE DRAINS.

R. B. S. HART,

CHARLES H. PIERCE.

PUMPING ENGINEERS, ERNEST STREET STATION.

PRELOTT W. ROUNDS,

JUDSON DAVIS.

JOINT COMMITTEE ON WATER.

JOHN C. DUNN. *Chairman.*

EMERY J. SAN SOU'CI,

LAWRENCE J. COFFEY.

JAMES A. POTTER, JR.

LEWIS J. PIERCE.

JOINT COMMITTEE ON SEWERS.

GEORGE P. PETERSON. *Chairman.*

EDWIN S. DARLING,

JOHN O. DARLING,

HENRY M. WINN,

BURMAH E. PERKINS.

JOINT COMMITTEE ON HIGHWAYS.

WALTER A. PRESBREY. *Chairman.*

THOMAS H. LEONARD,

HENRY FLETCHER,

HENRY A. GRIMWOOD,

ABRAHAM A. GRAY.

COMMITTEE ON STREETS.

ABRAHAM A. GRAY. *Chairman.*

DENNIS F. MCCARTHY,

GILBERT R. PARKER.

JOINT COMMITTEE ON LIGHTS.

THOMAS H. LEONARD. *Chairman.*

E. MERLE BIXBY,

JEREMIAH W. MILLER,

EMERY J. SAN SOU'CI,

DENNIS F. MCCARTHY.

SCHEDULE OF WATER RATES

FOR THE CITY OF PROVIDENCE.

The following rates will be charged, until further notice, for the use of Pawtuxet river water:

Dwelling houses occupied by one family, one faucet, - - -	\$6 00	Photographers, according to quantity of water used, - - -	\$15 00 to \$40 00
Each additional faucet, not herein-after specially rated, - - -	2 00	Printing-offices, according to number of presses used, not including supply for steam boiler, - - -	\$8 00 to \$40 00
One bath tub, - - - - -	5 00	Bakeries, according to the average daily use of flour per barrel, not including supply for steam boiler, - - -	3 00
Each additional bath tub, - - -	3 00	Provided, however, that no bakery shall be charged less than - - -	8 00
One water closet of approved kind, - - -	5 00	Greenhouses and graperies, according to the quantity of water used, - - - - -	\$8 00 to \$30 00
Each additional water closet, - - -	3 00	Fountains, $\frac{1}{2}$ -inch jet, average use six hours per day for six months in the year, - - - - -	10 00
One self-closing urinal (none others allowed), - - - - -	3 00	$\frac{1}{2}$ -inch jet, average use, etc., - - -	40 00
Each additional urinal, - - - - -	2 00	Other sizes in proportion.	
One set-basin, - - - - -	2 00	Garden hydrants and street and window washers. No hydrants allowed unless at least \$6.00 is paid for water for other purposes.	
Each additional set-basin, - - -	1 00	For hose, with nozzle not exceeding 3-16 inch diameter, to be used not exceeding one hour per day, on the premises of the water-taker only, including one-half of width of street, - - - - -	5 00
One set of set wash-tubs, not exceeding three tubs, - - - - -	3 00	For use on neighbor's premises, including his part of street, additional, - - - - -	5 00
Each additional set wash-tub, - - -	1 00	No larger nozzle will be allowed except by special permit, for which a proportionate charge will be made.	
Provided that no private dwelling be charged over - - - - -	40 00	Special permits will also be given for use for longer time, on payment for such time.	
Dwelling houses occupied by more than one family, each family having separate fixtures, will be charged the same as if living in a separate house; if using the same fixtures, each additional family, - - - - -	5 00	The use of hose will not be allowed without charge therefor.	
Stores, warehouses, offices, and shops, requiring no more than an ordinary supply of water, for the same fixtures the same price as for dwelling houses. If any tenant having no fixtures has access to any fixture, there will be charged for each such tenant, - - -	2 00	The charge for use on neighbors' premises does not include the right to supply water for any other purpose than sprinkling, or for washing windows.	
Hotel, boarding houses, and lodging houses, in addition to the rates for families, there will be charged for each bed for boarders and lodgers, - - - - -	1 00	Hydrants used as fountains will be rated as such.	
Refectories, confectioners, eating houses, fish markets, bar-rooms, refreshment and oyster saloons, according to quantity of water used, - - - - -	\$10 00 to \$50 00		
Meat markets and provision shops, according to quantity of water used, - - - - -	\$8 00 to \$30 00		

Hydrants outside the meters are only allowed to be used by holding the hose in hand.

Stables.—Private stables, - - \$4 00

Each horse more than one, - - 2 00

Livery stables, each single stall, - 1 50

Work horses, including car horses, each, - - - - 1 50

Provided that no stable shall be charged less than - - - 4 00

The above charges include water for washing carriages, but in no case shall hose be used for washing either horses or carriages without an extra charge to be agreed upon.

Neat cattle, each head, - - - 1 00

Swine, each, - - - - 25

City fire hydrants, each, - - - 30 00

THE ABOVE RATES ARE ALL ANNUAL.

Sprinkling carts, two-horse cart, per week, - - - - \$12 00

One-horse cart, per week, - - 6 00

Building purposes, each cask of lime or cement, - - - - 08

Water for filling cisterns or tanks, 5 00

For measured or estimated water:

For all water annually consumed through a single tap, up to \$600.00 in value, per 100 gallons, - - \$ 02

For all water annually consumed through a single tap, exceeding \$600.00 in value, for the excess, per 100 gallons, - - - 01½

Provided, however, that in no case where a meter is used, shall the annual charge be less than \$10.00, which minimum annual charge shall be payable in advance.

Hydraulic elevators, per 100 gallons, registered by counters, ¼ cents net.

When meters are used to register the water for elevators a discount of 20 per centum shall be made from the above rate.

For purposes not named in the above schedule, and for peculiar circumstances, special assessments or contracts will be made.

For permanently closing stops and supplying the premises through other stops, a charge of five dollars will be made for each stop permanently closed.

RULES AND REGULATIONS.

(Subject to additions and amendments.)

All applications for the use of water must be made at the office of the Commissioner of Public Works, in the form prescribed, stating fully and truly the various uses to which the water is to be applied.

The city will furnish service pipe connection from the main pipe to inside the curb line; and the Commissioner of Public Works will in each case determine the size of tap, stop, and pipe of such connection.

All work inside the tap (at the curbstone) must be done at the expense of the taker by a plumber licensed by the Commissioner of Public Works.

The Commissioner reserves the right to decline to connect with plumbing which has not been done by a plumber licensed by him, or which has not been examined and approved by such licensed plumber.

No street, sidewalk, or other public place shall be opened for any purpose, referring to the water works, without a special permit from the proper officer; and such permit will be granted only to a licensed plumber, on his written application therefor.

The strength of the pipes used, their protection against freezing, the kind of faucets and other fixtures, and the general arrangement of the work in reference to its security and safety, are to be subject to the approval of the proper officer.

Persons taking water must keep their own water pipes, and all fixtures connected therewith, in good repair and protected from frost at their own expense. They must provide a stop and waste-cock, to be properly located inside the building, and have the pipes so arranged that the water can be drawn from them wherever and whenever there is danger of its freezing. Should there be no stop-cock on the premises, a charge of two dollars will be made for closing and opening, when necessary, at the curb-stone.

No alterations in pipes or fixtures shall be made, and no additional fixtures put in, without notice to the commissioner, and a permit having been obtained therefor. The only exception to the above will be in cases where pipes have burst and damage to the premises is likely to result from any delay in making necessary repairs. In cases of this kind, a return must be made by the plumber making the repairs, as soon after the work is done as practicable.

No person shall be entitled to damages, nor to have any portion of a payment refunded for any stoppage of supply occasioned by accident to any portion of the works, nor for stoppage for purposes of additions or repairs, nor for non-use occasioned by absence; and the Commissioner of Public Works shall have the right to shut off water to make repairs or additions of new work.

When water shall be supplied to more than one party through a single tap, the bill for the whole supply furnished through such tap will be made either to the owner of the estate, or to some one tenant who shall agree to be responsible therefor. In case of non-payment the water may be shut off, notwithstanding one or more parties may have paid the proportion due from him or them. Owners shall be so far responsible for tenants that new tenants shall not be entitled to a supply until all arrearages on the premises are paid.

No hydrant, hose bib or hose attachment shall be placed in any yard or area of any premises so situated as to be accessible to persons living in or occupying neighboring premises, unless the owner of the premises first named becomes responsible for and pays the water rent for all persons using water therefrom.

In all occupied premises, every private fountain, water-closet, set-basin, sink, or other fixture, whether used or not, will be deemed and held as used, and will be charged for so long as such fountain, water-closet, set-basin, sink or other fixture shall remain connected with the water-pipes.

No water-taker will be allowed to supply water to parties not entitled to its use, except through a meter or by special permit from the Commissioner of Public Works; and if found doing so without a permit the supply will be stopped, and the water rent already paid forfeited.

Persons who have provided themselves with fixtures for protection against fire (no water charge is made for such) will not be allowed to use water through such fixtures for other purposes, except upon a written permit from the Commissioner of Public Works. Any person violating this provision will be liable to have the supply cut off.

There shall be no concealment of the purpose for which water is used.

There shall be no unnecessary waste of water. Any person violating this rule shall be liable to have his supply cut off, and the amount paid therefor forfeited.

The Commissioner of Public Works, his agents and assistants, may enter any premises supplied with Pawtuxet water, at all reasonable hours of the day, to wit, between eight o'clock A. M., and six o'clock P. M., to examine the pipes and fixtures, the quantity of water used, and the manner of its use.

METERS.

When a consumer shall prefer to pay the cost of such a meter as shall be approved by the Commissioner of Public Works, together with the cost of putting in and of maintenance, rather than to pay schedule rates, or for the quantity estimated, a meter will be put in.

The Commissioner reserves the right to put in a meter at the cost of the city, in any case, and charge for measured water, instead of being governed by the foregoing schedule.

If a meter gets out of order and fails to register, the consumer will be charged at the average daily consumption, as shown by the meter when in order. Repairs of meters will be made by the Commissioner at the expense of the owners, whenever the Commissioner deems repairs necessary.

When water passes through a meter it may be used for any and all purposes. No service pipes, however, will be allowed to be laid across a street.

All water passing through a meter will be charged for, whether used or wasted.

All meters will be set by an employee of the Commissioner, and shall not be moved or disturbed without permission from the proper officer.

RULES GOVERNING STREET SPRINKLERS AND STREET SPRINKLING.

No person or persons shall be permitted to take water from the fire hydrants or street sprinklers, to sprinkle any of the streets or portions of the streets of this city, or for any other purpose, without having obtained a permit from the Commissioner of Public Works, which permit shall be good only for the time named therein.

The sprinkling of streets shall be done in such manner as not to become injurious to the health of the public, or to cause the streets to become muddy in consequence of said sprinkling.

Streets must not be sprinkled on damp days, nor in the shade of trees or buildings, when the pavement is moist.

Drivers must shut off the water at crosswalks, and when passing carriages, pedestrians, etc., so as not to wet or spatter them. This rule will apply to meeting people crossing streets on the crosswalks, and carriages standing in front of buildings.

The further employment of drivers who sprinkle until the streets are actually muddy will not be permitted.

The orifices of the tube or sprinkler through which the water passes from the sprinkling cart or wagon to the street must not exceed one-sixteenth of an inch in diameter, or sixty orifices to the running foot of

sprinkler. Carts with patent sprinkling attachments shall have them so adjusted that too much water may not run through them.

All sprinkling carts shall be subject to inspection by an inspector authorized by the Commissioner.

In taking water for street sprinkling purposes, no leakage or waste of water, either from street sprinkler, hose, or sprinkling-cart will be tolerated; and all persons using the sprinklers shall leave them properly covered.

All instructions received from any authorized inspector, relative to the sprinkling of streets, shall be fully complied with.

Violations of rules relating to sprinkling streets, shall be deemed sufficient reason for refusing further permits.

PAYMENT OF BILLS.

Bills for annual rates will be payable annually, in advance, on the first day of January, at the office of the City Treasurer. (See Revised Ordinances, 1896, Chapter 41.)

Fractional parts of a year will be calculated to the first day of January next ensuing, and will be payable as soon as the water is let on.

Bills for measured and estimated water will be payable either monthly, quarterly, or annually, according to use.

If bills remain unpaid for ten days after due, the water may be shut off without further notice.

The supply of water is liable to be shut off for non-payment of bills or violation of rules; and when so shut off, the sum of two dollars and the bill, if any, shall be paid before letting it on. This liability shall include all bills for water, although previous bills for a less supply of water through the same stop may have been paid; also bills for repairs of meter.

No person shall open or interfere with the fire hydrants, hydrants for street sprinklers, valves, or other water works fixtures of the city, without proper authority.

PLUMBERS.

Any plumber wishing to do business in connection with the Providence water works is required to procure a license from the Commissioner of Public Works, and at the same time to execute a bond with one or more securities to be approved by said Commissioner, in the sum of three thousand dollars, conditioned that he shall indemnify and save harmless the City of Providence and said Commissioner from all suits and actions of every name or description, brought against the City of Providence or any officer of said city, for or on account of any injuries or damages received or sustained by any person by or from said licensed plumber, his servants or agents in doing said work, or by or in consequence of any negligence in guarding the same, or any improper materials used therein, or by or on account of any act or omission of the said plumber, or his agents; and said plumber shall faithfully perform the work in all respects, and shall also replace and restore the street pavement over every opening to as good state and condition as he found it, and keep and maintain the same in good order, to the satisfaction of the said Commissioner, for the space of six months thereafter; and shall also comply

in all respects with the rules and regulations established, relating to said water works; and also that he will pay all fines imposed upon him for a violation of any rule or regulation of the Commissioner. All licenses now in force shall expire on the 31st day of December next ensuing, and all licenses issued hereafter shall be for the term ending December 31st, next following their issue.

In addition to the authority to introduce and distribute Pawtuxet water, the licensed plumber shall have all the authority of the licensed drain layer to lay private drains and appurtenances in connection with the public sewers, subject to the rules and regulations governing the same.

No licenses will be granted to other than practical plumbers, or to those who employ practical plumbers to do their work.

Each licensed plumber shall state his actual place of business, together with the name under which the business is done, and shall immediately notify the Commissioner of any change in either thereafter.

All work in a street or other public place must be done in the best manner to protect the public against injury, and to secure good and satisfactory work. The Commissioner may repair work which is unsatisfactory, after one day's notice, and collect the cost from the plumber doing the work.

The Commissioner and his authorized agents are to have at all times, facilities for inspecting the plumbing or other work and fixtures while under the charge of the plumber.

All plumbing must be completed in a building before attachment is made to the service pipe, unless by special permit.

Where service pipes have been laid to or inside the curb line, or continued to the cellar foundation of building, for building purposes, a permit will be necessary for any additions thereto.

Plumbers shall make full written returns of the ordinary and special uses to which the water is designed to be applied under permits granted, whether of new work or alterations or additions, with a full description of all apparatus and arrangements for using the water in every case, the return to be made within forty-eight hours after attachment with the several pipes, or completion of alterations or additions. In case of the suspension of any part of the contemplated work for any cause, it shall be the duty of the plumber to make a return of the work as far as completed. No plumber or other unauthorized person will be allowed to turn on water.

No person, unless specially authorized by the Commissioner, will be permitted to make any connection with the main or distributing pipes.

No licensed plumber will be permitted to take out a permit for work to be done by a person not in the employ of such plumber.

Permission is required to be obtained by licensed plumbers for all work done.

The Commissioner shall have the right to impose a fine, not exceeding in any one case the sum of ten dollars, for violation of rules and regulations by licensed plumbers.

Violations of the rules and regulations, or the conditions under which a license is taken, will subject the plumber to forfeiture of his license, or to a fine, or both, as well as to the penalties of his bond.

**RULES FORBIDDING THE CONNECTION OF ANY OTHER WATER SUPPLY TO
PIPES SUPPLIED WITH WATER BY THE CITY OF PROVIDENCE.**

SECTION 1. No water pipes, in any building or premises, supplied with water by the city, shall be allowed to receive a supply of water from any other source. No connection of pipes having another supply controlled by valves or "shut-offs" will be allowed. Such pipes must be entirely disconnected, as there must be no possibility to supply other water to the city mains.

SEC. 2. The owner or authorized agent of any building or premises which has any water pipes connected in the manner prohibited by section 1. shall, within sixty days after being notified by the Commissioner, disconnect the same, and if such pipes remain connected to the city water pipes after the time limited by said notice, the city water will be shut off from the building until all pipes are disconnected as specified in said section 1. And if at any future time any pipe be reconnected in any building or premises in violation of said section 1, all the city water supplied to pipes so connected will be shut off from said building or premises until the owner or authorized agent has paid a penalty of fifty dollars, and the pipes have been disconnected as specified in section 1.

The following copy is given for the information of water takers :

IN BOARD OF ALDERMEN.

(Board of Health.)

June 29, 1893.

The following resolution is read and passed, viz. :

RESOLVED, That the Commissioner of Public Works be, and he is hereby directed to decline to supply water to any connecting-pipes made with the distribution pipes of the city, unless the same are supplied exclusively by the city water supply.

RULES FOR THE USE OF PRIVATE FIRE SUPPLIES.

Applications for private fire supplies must be accompanied by a full detailed plan, showing all connections contemplated with other fire supplies, tanks, and sewers, which shall be approved by the City Engineer before action will be taken thereon.

No changes, additions, or connections will be allowed except upon plans filed and approved in the same manner as with the original application for said supplies.

All work in connection with private fire supplies shall be done by a licensed plumber and under proper inspection, and all gates, valves, fire-plugs, and hydrant, connected with such supply, shall be sealed by the inspector when deemed necessary.

For the purpose of covering the expense of a proper inspection of the complicated systems of private fire connections now demanded, the following yearly rates will be charged, when Pawtuxet water is exclusively used for general purposes, viz. :

For one (1) supply.....	\$5 00
For two (2) supplies, connected, but without auxiliary tank...	10 00
Either one (1) or two (2) supplies connected to tank.....	15 00

When other water than that furnished by the city is used for general purposes, SPECIAL CONTRACTS OR LARGER ASSESSMENTS WILL BE MADE.

Private fire supplies and the fire apparatus connected with the same, may be tested by the parties owning the same, or by insurance inspectors, under the following conditions:

First—Notice to be given at the office of the Commissioner of Public Works that such a test is desired, when date and hour will be agreed upon for said test.

Second—All tests to be made in the presence of the inspector assigned by the commissioner, whose sole duty shall be to remove and replace the seals used on the fire apparatus and note the time required in making the test.

Third—The rates for testing are as follows:

One hour or less, \$3.00;

For all time in excess of one (1) hour, \$1.00 for each hour or fraction thereof.

Fourth—Water shall not be used from any private fire supply, nor seals broken or removed, except in cases of fire, written notice of which is to be given at the office of the commissioner within twenty-four hours after its occurrence.

Fifth—Not more than two private fire connections from the city water mains will be allowed to any building or premises, except under exceptional circumstances, to be determined by the commissioner. The connections may be made from one or more streets if the building or premises fronts upon the same. No pipes, however, will be allowed to be laid across a street.

Not more than two private fire connections from the city water mains will be allowed to be connected together under any circumstances in any building or premises.

When two private fire connections are connected together, a suitable check-valve must be placed upon each.

In conformity with the order of the Board of Health, no private fire system which is in any manner connected to the city water mains, shall have any other supply of water. No valves of any description will be allowed as "shut-offs" to any other supply, as there must not be a possibility of any other supply of water to such pipes.

When a tank is connected to a private fire system which is connected with the city water mains, it shall be subject to the following conditions: The only water that will be allowed to be supplied to the tank will be the water furnished by the city. Said water shall be measured by a meter. The supply pipe leading to the tank shall be entirely independent of the fire system proper. It can be directly connected to the city water mains, or to a regular service pipe which supplies city water to the premises where the tank is located.

The outlet end of the supply pipe of a gravity tank shall be placed at least six inches above the maximum water line of the tank, and the supply pipe of a pressure tank shall be so arranged as to prevent the water in the tank from flowing back into the city water mains. Each tank shall have a suitable check-valve upon the pipe leading from it to the distribution pipes of the fire system, for the purpose of preventing water from flowing into the tank from the city water mains.

A gravity tank shall be roofed over and construed to prevent rain, snow, dust, or any other objectionable matter from getting into it. Each tank shall have a manhole and permanent ladders arranged for convenient access to its interior, and shall have an outlet in its bottom, so that it can be emptied entirely independent of the pipes of the fire system. The interior of each tank shall be thoroughly scoured out at least once in twelve months.

All "drips" of fire systems, which are intended to empty into a sewer, shall first discharge into an open tank, the outlet pipe of which shall be deeply trapped and connected with the sewer in the usual manner.

Sixth—For each and every violation of the above, in whole or in part, the offending party, at the discretion of the commissioner, will be subject to a fine of not less than \$5.00 nor more than \$50.00, or be subject to having the supply shut off.

Owners or agents of property protected by private fire supply shall cause copies of rules one to six to be kept posted conspicuously in their office, engine room, and upon each floor of any building where fire-plugs are located that can be used by any employee; and no plea of ignorance will be entertained by the commissioner.

CITY ENGINEER'S DEPARTMENT.

[See Revised Ordinances, Chapter 41 and Chapter 869 of the Public Laws, 1890.]

CITY ENGINEER.**OTIS F. CLAPP.****CLERK IN CHARGE OF OFFICE.****HARVEY F. PAYTON.****PRINCIPALS AND ASSISTANTS.**

Frank Allen,
Walter P. Andrews,
Warren G. Baxter,
Frank O. Bishop,
Frank B. Bourne,
John E. Bowen,
William G. Brennen,
William A. Brown,
William D. Bullock,
Thomas F. Campbell,
Harrie N. Cheney,
Emory E. Colwell,
J. Vinton Dart,
John J. Fleming,
David B. Fitts,
Frederick O. Gage,
Arthur H. Gardiner,
George J. Hazard,
William G. Holden,
Charles M. Hunt,
Grenville R. Hood,
Charles F. Janes,

John W. Keily,
Walter L. Kendrick,
John L. Leonard,
Clinton C. Lovejoy,
Walter W. Massie,
Edward S. McGregor,
James A. McKenna,
W. Percy Meredith,
Edward F. Moran,
Albeus P. Murray,
Hovsep C. Nahigian,
S. Frank Nolan,
Robert H. Peck,
Henry A. Pray,
Henry J. Reynolds,
Louis D. Richardson,
Elmer W. Ross,
Herbert E. Sherman,
Walter G. Stackpole,
Stephen A. Taft,
Elbert E. Tift,
James V. Turner,

Irving S. Wood.

**JOINT COMMITTEE ON THE CITY ENGINEER'S
DEPARTMENT.**

AUGUSTUS S. MILLER, *Mayor and Chairman.*

JAMES F. FREEMAN,

WALTER A. PRESBREY,

JOHN E. KENDRICK,

GEORGE P. PETERSON,

CHARLES R. MAKEPEACE.

BRIDGE DEPARTMENT.

[See Chapters 5 and 41 of the Revised Ordinances, also Chapter 889 of the Public
Laws, 1890.]

IN CHARGE OF PUBLIC BRIDGES.

WALTER F. SLADE,

COMMISSIONER OF PUBLIC WORKS.

ADVISING COMMITTEE ON BRIDGES.

STEPHEN A. COOKE,

JAMES F. FREEMAN,

ABRAHAM A. GRAY,

LEWIS J. PIERCE.

DENNIS F. MCCARTHY,

GILBERT R. PARKER,

JOHN C. BUDLONG,

BURMAH E. PERKINS,

WILLIAM K. REYNOLDS,

WILLIAM H. COVELL,

WILLIAM E. CLARKE, *Clerk.*

SUB-COMMITTEE.

BURMAH E. PERKINS, *Chairman.*

WILLIAM H. COVELL,

LEWIS J. PIERCE,

POINT STREET BRIDGE.

Walter S. Baxter, *Superintendent.*

Frank I. Baxter, *Assistant Superintendent.*

Thomas F. Nickerson, *Day Engineer.*

James McEvoy, *Night Engineer.*

RED BRIDGE.

Frederick A. Boss, *Superintendent*, Ralph W. Quimby, *Engineer*.
Nelson J. Kent, *Watchman*.

WASHINGTON BRIDGE.

Frederick H. Johnson, *Superintendent*. Nathan F. Dixon, *Engineer*.
Joseph M. Nolan, *Watchman*.

INSPECTION OF BUILDINGS.

[See Revised Ordinances, Chapter 30.]

INSPECTOR.

SPENCER B. HOPKINS,

ASSISTANT INSPECTOR.

HENRY W. GOFF.

CLERK.

CHARLES E. MYERS.

INSPECTION OF PLUMBING.

[See Revised Ordinances, Chapter 35.]

INSPECTOR.

REUBEN S. BEMIS.

Office hours, 8 to 9 A. M. and 1 to 2 P. M.

ASSISTANT INSPECTORS.

HORACE B. HOLLAND,

WILLIAM H. CAMFIELD.

CLERK.

CHARLES W. SPRATT.

PUBLIC PARKS.**SUPERINTENDENT.****JOSEPH D. FITTS,**

Office at Roger Williams Park.

PARK COMMISSIONERS.**FENNER H. PECKHAM, *Chairman.*****R. H. I. GODDARD.****WILLIAM A. WALTON.****JOSEPH D. FITTS, *Superintendent of Parks and Secretary.***

Office at City Hall.

JOINT COMMITTEE ON PARKS.**ROBERT C. ROOT, *Chairman.*****JOHN O. DARLING,****FREDERICK LITTLEFIELD,****CHARLES SISSON,****WILLIAM K. REYNOLDS.**

HARBOR.**HARBOR MASTER.****JOHN H. MAGUIRE.****JOINT COMMITTEE ON HARBOR.****CHARLES SISSON, *Chairman,*****EDWIN S. DARLING,****JAMES J. MCGOVERN,****HENRY M. WINN,****GILBERT R. PARKER.**

STEAM BOILERS.

[See Chapter 6, Revised Rules of the Board of Aldermen, 1899.]

INSPECTOR OF STEAM BOILERS.**CHARLES E. DOYLE,**

Residence, No. 29 Sheldon street.

WEIGHTS AND MEASURES.

[See Revised Ordinances, Chapter 30, Sections 43-48.]

CITY SEALER.

LOUIS B. JONES.

Office at Old Central Police Station on Canal Street.

DEPUTY.

(Passed.)

STREET SIGNS AND NUMBERS.

[See Revised Ordinances, Chapter 30, Sections 47-48.]

SUPERINTENDENT.

LOUIS B. JONES.

Office at Old Central Police Station on Canal Street.

COMMITTEE ON STREET SIGNS AND NUMBERS.

WILLIAM H. COVELL, *Chairman.*

WILLIAM J. REYNOLDS,

LEWIS J. PIERCE.

POLICE DEPARTMENT.

[See Chapter 930 of the Public Laws, passed November 22, 1901.]

Headquarters, No. 161 Fountain Street.

BOARD OF POLICE COMMISSIONERS.

WILLIAM H. LUTHER, *Chairman.*
GARDINER C. SIMS, LEWIS J. PIERCE.
SAMUEL GEE, *Secretary.*

CLERKS.

MARTIN L. JAMES, MABEL S. FRICK.
FLORENCE M. MORROW, FREDERICK C. EGAN.

CHIEF OF POLICE.

FRANK A. MATTHEWS.
Residence, No. 84 Hanover Street.

DEPUTY CHIEF OF POLICE.

PATRICK EGAN.
Residence, No 74 Arnold Street.

POLICE SURGEON.

CLIFFORD H. GRIFFIN.
Residence, No. 101 Broad Street.

SUPERINTENDENT OF HACKS.

CHARLES A. BENNETT.
CLARENCE E. VAUGHN, *Clerk.*

PROPERTY CLERK.

STEPHEN F. BLANDING.

WARRANT OFFICERS.

EDWIN R. JONES, ANDREW P. MARTIN.

CAPTAINS.

WILLIAM H. LAWRENCE,	FIRST DISTRICT.
CONSTANT S. HORTON,	SECOND DISTRICT.
JOHN A. MURRAY,	THIRD DISTRICT.
JOSEPH MARSTON,	FOURTH DISTRICT.
A. FRANK MOWRY,	FIFTH DISTRICT.
WILLIAM H. ROWE,	SIXTH DISTRICT.
SILAS L. W. MERRILL,	SEVENTH DISTRICT.
PETER B. CANNON,	DETECTIVE FORCE.

LIEUTENANTS.

MAYNARD L. STONE,	FREDERICK A. RANKIN,
WILLIAM F. O'NEILL,	PETER F. GILMARTIN,
HUGH D. ROBBLEE,	THOMAS D. TYLER.
JOHN B. HARTNETT.	WILLIAM P. WHIPPLE.

SERGEANTS.

LEROY T. BENNETT,	WILLETT E. POTTER.
GEORGE A. CLARK,	JOHN J. TOOLE,
ROBERT M. CONNORS,	PETER F. DUFFY,
JAMES J. COSTIGAN,	EDWARD J. SMITH,
JOHN T. MAGUIRE,	WILLIAM S. KENT,
THOMAS J. HANLEY,	JOHN F. MULDOON.
JOSEPH A. PROUT.	SAMUEL W. THOMAS.

WILLIS L. DOE.

DETECTIVES.

PETER B. CANNON, *Captain.*

PATRICK PARKER,	JOHN T. HARAN,
ALBERT E. NICKERSON,	JAMES AHEARN, Jr.
JOHN J. O'MALLEY,	HERBERT B. CAFFREY.

FIRST STATION.

Fountain street.

WILLIAM H. LAWRENCE, <i>Captain.</i>
WILLIAM F. O'NEIL, <i>Lieutenant.</i>
MAYNARD L. STONE, <i>Lieutenant.</i>
JOHN T. MAGUIRE, <i>Sergeant.</i>
JOHN J. TOOLE, "
WILLIS L. DOE, "

DAY PATROLMEN.

Frank H. Anthony,	John H. Hennessey,
John B. Black,	Ernest A. Johnson,
William H. Briggs,	John Linehan,
Thomas H. Cannon,	John H. Martin,
George M. Chace,	James H. Moffitt,
James Feeley,	Chandler B. Robinson,
William Gilfoil,	John V. Simonds,
Edward M. Whipple.	

NIGHT PATROLMEN.

Albert T. Applin,	Hugh E. Keenan,
Berger J. Benson,	Thomas Kelley,
Frank E. Blake,	John J. Kelly,
Skinner A. Collier,	Thomas J. Kiley,
William L. Costigan,	James A. Lee,
Edward Dorsey,	Michael J. Luby,
Cornelius J. Dunn,	James J. Lyons,
James F. Feeney,	Thomas J. McCartin,
Harold A. George,	Edward J. McDonnell,
Miles A. Glidden,	William A. O'Brien,
Louis A. Hall,	Reuben H. Rowe,
Peter L. Hayden,	Stephen Ryan,
William F. Higgins,	Samuel D. Sessions,
Walter B. Horr,	Patrick H. Sheahan,
William R. Houghton,	Thomas Wolf.

SECOND STATION.

Corner of Chalkstone avenue and Ashburton street.

CONSTANT S. HORTON, *Captain.*
JOHN B. HARTNETT, *Lieutenant.*
EDWARD J. SMITH, *Sergeant.*
PETER F. DUFFY, "
LOUIS F. GODFREY, *District Detective.*

DAY PATROLMEN.

George W. Boss,	Dennis McCarthy,
William H. Conlon,	Edmund J. Munroe,
Thomas F. Kavanaugh,	Philip Keefe,
John F. Mathewson,	John J. Sullivan.

NIGHT PATROLMEN.

Daniel Ahern,	William A. Gillen,
Asa Burlingame,	Hyman G. Goldsmith,
Patrick J. Burns,	Edward Hunt.
Daniel D. Byron,	Henry F. Morse,
Everett M. Carey,	John A. Murphy,
Thomas F. Carey,	Edward McGuire,
Francis J. Carney,	Patrick McGuire.
Michael Conlon,	Bradford G. Niles,
Eugene F. Dailey,	Thomas L. Nolan,
William M. Delaney,	Howard S. Paine,
Thomas J. Drury,	Charles E. Smith,
Bernard J. Fay,	Warren M. Smith,
Patrick J. Feeney,	Joseph B. Stockley.
Charles E. Fort,	Alfred E. Warhurst,

Herbert M. Willard.

THIRD STATION.

Wickenden street.

JOHN A MURRAY, *Captain*.
 FREDERICK A. RANKIN, *Lieutenant*.
 GEORGE A. CLARK, *Sergeant*.
 THOMAS J. HANLEY, "
 CHRISTOPHER J. BYRON, *District Detective*.

DAY PATROLMEN.

Matthew F. Fitzpatrick,	John F. Lyons,
Richard Gamble,	William F. Scanlon,
Thomas Harvey,	Job. S. Yeaw.

NIGHT PATROLMEN.

Joseph A. Arnold,	James L. Fisher,
James Ash,	Peter Gormley,
Fred H. Blackman,	George M. Hindmarsh,
Almond E. Cahoon,	William W. Huntley,
Clarence W. Case,	Edwin Jones,
Thomas E. Darcy,	Thomas C. Kane,
John J. Doyle,	Valter S. Keene.
Michael J. Duffy,	Francis P. Markey,
James Fay.	John Maroney.

William E. McGann,
Lawrence P. Pelrine,
Michael Reynolds,
James J. Riley,
Willard I. Turner.

John H. Sheehan,
Thomas J. Sheridan
John H. Smith,
William Sneath,
John W. Ward.

FOURTH STATION.

Knight street.

JOSEPH MARSTON, *Captain.*
WILLIAM P. WHIPPLE, *Lieutenant.*
JAMES J. COSTIGAN, *Sergeant.*
WILLIAM S. KENT, "
FRANCIS P. JOHNSON, *District Detective.*

DAY PATROLMEN.

Owen E. Breheney,	Thomas Hopkins,
Ralph E. Gifford,	Owen King,
Charles B. Gorey,	Frank L. Martin.

NIGHT PATROLMEN.

John H. Armstrong,	Thomas W. Jacobs,
Alonzo J. Brown,	John J. McCaffrey,
John F. Byron,	Charles McSoley,
James A. Cates,	Clement D. Pelrine,
James J. Cook,	Fred E. Reed,
James L. Coyle,	Edward J. Robinson,
Joseph A. Drury,	Frank Schiller,
William H. Ferguson,	John J. St. Peters,
Peter H. Galligan,	William F. Sullivan,
James Garrity,	Julius A. Webb.
John H. Haniford,	Warren P. Wilson,
Harry M. Hickey,	William M. Wyman.

FIFTH STATION.

Plain street, corner of Borden street.

A. FRANK MOWRY, *Captain.*
PETER F. GILMARTIN, *Lieutenant.*
JOHN F. MULDOON, *Sergeant.*
SAMUEL W. THOMAS, "
CLAUDE B. THID, *District Detective.*

DAY PATROLMEN.

Julius B. Alfred,	James M. Cannon.
William E. Bowen,	Cornelius Daly,
William Bradbury,	Michael Griffin,
	Francis H. Morton.

NIGHT PATROLMEN.

Patrick Blessing,	Francis O'Connor,
Arthur P. Butts,	John B. O'Rourke,
Michael J. Cunningham,	Henry H. Place,
Thomas J. Curley,	Owen Rice,
Thomas J. Duffy,	Andrew W. Rochford,
Thomas E. Dyer,	Thomas Rooney,
John O. C. Ellis,	Jeremiah H. Shea,
James A. Flynn,	George W. Stewart,
Jason W. Harvey,	John F. Toole,
Charles E. Holland,	Algernon S. Tucker,
Charles J. McCarthy,	Thomas A. Wallace,
Joseph McDonald,	Albert E. Wixon,
John F. McGovern,	George A. Wyman,

SIXTH STATION.

Corner Chaffee and Capron streets.

WILLIAM H. ROWE, *Captain.*

THOMAS D. TYLER, *Lieutenant.*

WILLETT E. POTTER, *Sergeant.*

LEROY T. BENNETT, "

JOHN J. MAGUIRE, *District Detective.*

DAY PATROLMEN

Malvin B. Bates,	Murdock C. McKenzie,
John N. Dyer,	James P. McLaughlin,
Francis H. Luby,	Patrick A. Sullivan,
	Albert N. White.

NIGHT PATROLMEN.

John Bierne,	Charles Campbell,
Luther C. Bugbee,	Edward D. Coakley,
Daniel J. Cahill,	Patrick Connerton,

Patrick Devine,
Patrick J. Fanning,
Martin P. Feeney,
Joseph M. Flynn,
Marcelle Hannon,
John E. Henry,
John F. Holland,
Michael E. Kelley,
William C. Koch,
Thomas F. Jones,
John E. McCrann,

James Moan,
Udpike C. Mowry,
Percy R. Perkins,
Arthur D. Sharpe,
Isaiah B. Sherman,
Thomas Smith,
Edward J. Tiernan,
Luke Toner,
William J. Tracy,
Ernest Wilkinson,
Charles S. Young.

SEVENTH STATION.

Hamilton street, corner Public street.

SILAS L. W. MERRILL, *Captain.*
HUGH D. ROBBLEE, *Lieutenant.*
JOSEPH A. PROUT, *Sergeant.*
ROBERT M. CONNORS, "
GEO. H. MONAHAN, *District Detective.*

DAY PATROLMEN.

Frank P. Day,
William Dolan,
Welcome U. Foye,

Charles C. Mayno,
Henry E. Leonard,
Lewis H Streeter.

NIGHT PATROLMEN.

Joseph M. Ahern,
Frederick B. Austin,
Chester H. Blood,
Joseph W. Bush,
John Carmody,
Edgar L. Daniels,
John H. Finnegan,
Bernard Hand,
Francis H. Higney,
Lewis L. Irish,

George Irwin,
Thomas A. Kane,
Edward J. Kelley,
Neil J. McDonnell,
James B. McGuire,
Farrell McLoughlin,
Charles N. Phelps,
Bartholomew Reynolds,
Timothy C. Shea,
Charles H. Streker.

POLICE TELEGRAPH AND SIGNAL SYSTEM.

SUPERINTENDENT.

NATHAN M. RUSSELL.

ASSISTANT SUPERINTENDENT.

LEWIS C. LEIGHTON.

BATTERYMAN.

HUGH A. McMANUS.

SUPERANNUATED OFFICERS.

Josiah Bennett,
Daniel T. Colwell,
Joseph B. Curtie,
Elden W. Doe,

John B. Livsey,
Lorenzo D. Prosser,
James L. Sherman,
Thomas D. Topliff,

John K. Tripp.

MATRONS.

Mary J. Tillinghast,

Ellen Mills,

DRIVERS OF PATROL WAGONS.

Charles A. Anderson,
Patrick F. Barrett,
Everett C. Bliss,
Charles Burroughs,
Thomas E. Colton,
Alfred J. Crowell,
John Martin,

John Giblin,
Charles W. Higgins,
James E. Johnson,
George W. Lovell,
John T. Muffin,
Harry Smith,
Silas A. Smith.

DETENTION ROOM.

ABEL C. T. WHEELER,

JOHN R. FEELEY

DETAIL CITY HALL.

RICHARD A. CLARKE.

REPAIR DEPARTMENT.

OTTO L. BARTON,

FRANK DE GRADO.

POLICE PENSION ROLL.

Timothy T. Arnold,	George H. Dary,
Charles B. Baird,	Alfred S. Keach,
Otis W. Baker,	Andrew J. Kennedy,
Reuben R. Baker,	William H. Leavitt,
Herbert C. Blood,	Joshua A. Nickerson,
Hartley W. Brown,	George H. Norcross,
Alexander Charnley,	Edward O'Neill,
William W. Chace,	James P. Scott,
William H. Corey,	Benjamin T. White

CONSTABLES.

[With power to serve civil process.]

Rhodes U. Eldred,	Carleton Studley.
	Edward S. Van Steenbergh.

CONSTABLES.

[Without power to serve civil process.]

Frederick M. Adams,	Terrence W. Ford,
Philip H. Adamson,	Charles H. Galligan.
George E. Andrews,	Samuel Goldsmith, Jr.,
Timothy T. Arnold,	Charles A. Grant,
Thomas S. Austin,	Ephraim G. Greene,
Otto L. Barton,	Joseph W. Heaton,
Ernest C. Bliss,	Llewellyn Jones,
A. S. Brightman,	John J. Kenyon,
Harris W. Brown,	Albert Knight,
Thomas L. Brown,	John F. Leach,
Charles E. Capwell,	Walter J. Lewis,
Charles M. Clough,	Geo. W. Lovell,
Clinton A. Clough,	Michael J. Maher,
George A. Cooper,	Thomas Wilbur Manchester,
Thomas E. Cotton,	John Martin,
Oscar M. Crandall,	Peter H. McCready,
W. Martin Dailey,	Patrick V. McElroy,
Judson Davis,	Hugh A. McManus,
George W. Dickens,	James A. Meehan,
Edward F. Dorsey,	Thomas F. Moran.
Alex. Durante,	Demus E. Morris,
Michael Dwyer,	David J. O'Leary
Chester E. Follett,	Frank E. Packard.

Frank H. Paige,
 Adelard Payette,
 John A. Potter,
 Patrick Quinlan,
 James Ricci,
 Higo Riddell,
 James Salisbury,
 Joseph A. Sherman,
 George H. Simms,
 James N. Smith,
 William S. Wiswall,

Harrie L. Stackpole,
 Thomas Stubbs,
 Paul P. Sully,
 Frank H. Thomas,
 Charles H. Thompson,
 David D. Thresher,
 Samuel H. Tobin,
 Charles A. Tucker,
 Benjamin T. White,
 Thomas D. White,
 Walter W. Williams,

SPECIAL CONSTABLE UNDER THE DOG LAW.

[Appointed by Police Commissioners.]

Herbert A. Dean.

POLICE JANITORS.

Isaac B. Mosby,
 William P. Young,
 Frank McManus,
 Otis W. Baker,

Benjamin F. Nichols,
 Hugh F. Leonard,
 James Healy,
 George H. Simms.

PROVIDENCE POLICE ASSOCIATION.

[Incorporated March 9, 1870.]

OFFICERS.

WILLIAM E. BOWEN,
 MATTHEW F. FITZPATRICK
 CONSTANT S. HORTON,
 DENNIS MCCARTHY,

President.
Vice-President.
Treasurer.
Secretary.

DIRECTORS.

JOHN H. MARTIN,
 P. JOSEPH BURNS,
 THOMAS J. HANLEY,
 FRED E. REED,

ALBERT E. WIXON,
 LEROY T. BENNETT,
 CHARLES H. STREKER,
 PETER B. CANNON.

POLICE COMMITTEE.

JAMES F. FREEMAN, *Chairman.*

BURMAH E. PERKINS,

WILLIAM K. REYNOLDS.

FIRE DEPARTMENT.

[See Chapter 186, Revised Ordinances, 1903, and Chapter 1100 of the Public Laws, 1892.]

BOARD OF FIRE COMMISSIONERS.

Headquarters, Central Fire Station, Exchange Place.

IRA WINSOR, *Chairman.*

WILLIAM ANDREWS,

JAMES DAVIS.

CLERK.

JOHN W. MORROW.

SUPPLY CLERK.

HENRY R. BEEHLER.

CHIEF ENGINEER.

GEORGE A. STEERE,

Headquarters at Central Fire Station.

DEPUTY CHIEF ENGINEER.

HOLDEN O. HILL.

Headquarters at Central Fire Station.

ASSISTANT ENGINEERS.

GEORGE F. BATTEY.

Headquarters at Station No. 12.

WILLIAM F. SMITH.

Headquarters at Station No. 8.

THOMAS H. DUFFY.

Headquarters at Station No. 11.

FIRE ALARM TELEGRAPH.

CHARLES G. CLOUDMAN, *Superintendent.*

ARTHUR D. SAYWARD, *Assistant Superintendent.*

THOMAS F. CAREY, *Operator,*

CHARLES F. HILL, *Operator.*

HERBERT H. TOTTEN, *Operator,*

WILLIAM H. LEIGHTON, *Lineman.*

BURRILL ARNOLD, *Operator,*

RONALD MCADAM, *Lineman.*

COMMITTEE ON FIRE DEPARTMENT.

JOHN O. DARLING, *Chairman.*

DANIEL F. GRADY,

THOMAS J. FLYNN,

HARRY DAW,

BURMAH E. PERKINS.

HOSE COMPANY, No. 1.

WASHINGTON.

House on Exchange place.

JAMES M. CURTIS, *Captain*.LEWIS A. LUSIGNAN, *Lieutenant*.*Hosemen.*

Thomas H. Mullen,

William E. Cameron.

Walter Sonner,

John D. Jones,

Charles H. Leclair,

Driver, Walter H. Durfee.

Hose Wagon built in 1891 by F. P. Pearce, of Providence, R. I.

ENGINE COMPANY No. 2.

PIONEER.

House on South Main street.

THOMAS J. COLBURN, *Captain*.EDWARD F. CURTIS, *Lieutenant*.JOHN R. SHERMAN, *Engineman*.RICHARD MARTIN, *Assistant Engineman*.*Hosemen.*

Daniel R. Munroe,

Frederick T. Sullivan

William J. Sherman,

Hose Dricer, Charles W. Sherman.*Engine Driver*, Thomas J. Morrissey.

Hose Wagon built by Lewis L. Fales, Providence, R. I., in 1892.

Engine built by La France Fire Engine Co., of Elmira, N. Y., in 1890.

HOSE COMPANY, No. 3.

FIRE KING.

House on Pond street.

OSCAR F. MILLETT, *Captain*,ASA G. DAVIS, *Lieutenant*.*Hosemen.*

Henry MacLean,

Frank E. Atkinson,

George H. Goff.

John A. Read,

Walter H. Hildreth,

Driver, Harry E. Carpenter.

Hose Wagon built by Archibald Martin, Providence, R. I., in 1895.

HOSE COMPANY, No. 4.

House on Mill street.

REUBEN D. WEEKES, *Captain.*GEORGE H. NOON, *Lieutenant.**Hosemen.*

James J. Casserly,

Thomas F. Sisson,

Hugh Mooney,

Walter H. Butts,

William J. Sumption,

Driver, Howard A. Reynolds.

Hose Wagon built by Archibald Martin, Providence, R. I., in 1890.

ENGINE COMPANY, No. 5.

NIAGARA.

House corner East avenue and Olney street.

HERMANN H. FISCHER, *Captain.*WALTER L. DAMON, *Lieutenant.*CHARLES H. HANDY, *Engineman.*THOMAS RYAN, *Assistant Engineman.**Hosemen.*

James W. Crawford,

Claude G. Reed,

Clarence E. Horton,

Engine Driver, George C. Woodbury.Charles H. McCoid, *Hose Driver.*Engine built by Cole Brothers, of Providence, R. I., in 1866. Hose
Wagon built by Lewis L. Fales, Providence, R. I., in 1892.

HOSE COMPANY, No. 6.

WATER WITCH.

House on Benevolent street.

THOMAS W. D. REYNOLDS, *Captain.*WILLIAM H. SALISBURY, *Lieutenant.**Hosemen.*

John H. Witchell,

John I. McKay,

Frank K. Wilkey,

Andrew A. Doherty,

William H. McCormack,

Driver, Otis P. Dill.Combination Hose Wagon and Chemical Engine built by C. T.
Holloway, Baltimore, Md., in 1898.

HOSE COMPANY, No. 7.

OCEAN.

House on Richmond street.

THOMAS F. McNEAL, *Captain*.DAVID W. CAPRON, *Lieutenant*.*Hosemen.*

Mahlon D. Brown,

James F. Hackett,

George A. Capron,

Michael J. Tierney,

Frank A. Eldred,

Driver, Ellsworth E. Blackinton.

Combination Hose Wagon and Chemical Engine built by C. T. Holloway, Baltimore, Md., in 1898.

ENGINE COMPANY, No. 8.

House on Harrison street.

FRANK E. TABER, *Captain*.STEPHEN C. MILLER, *Lieutenant*.MICHAEL O'GARA, *Engineman*.CHARLES H. CLAFLIN, *Assistant Engineman*.*Hosemen.*

Patrick J. Smith,

Cornelius V. Garvey,

Frederick C. Walden,

Hose Driver, Nicholas T. Feeley.

Benedict P. Grant,

Engine Driver, John L. Mathewson.

Combination Hose Wagon and Chemical Engine rebuilt by Archibald Martin, Providence, R. I., in 1899. Engine built by American Fire Engine Co., Seneca Falls, N. Y., in 1896.

HOSE COMPANY, No. 9.

JOHN W. TILLINGHAST.

House corner Atwell's avenue and America street.

WILLIAM W. KELLY, *Captain*.HERBERT B. KELLEY, *Lieutenant*.*Hosemen.*

William E. Gardiner,

Fred R. Hopkins,

Harry R. Angell,

Albert J. Holley,

Andrew C. Wrisley,

Driver, Frank E. Bailey.

Hose Wagon built by F. P. Pearce & Co., of Providence, R. I., in 1896.

ENGINE COMPANY No. 10.

WASHINGTON.

House on Burnside street.

JOHN H. CAPRON, *Captain*.WILLIAM A. ORR, *Lieutenant*.DAVID C. CARY, *Engineman*.SAMUEL LOXLEY, *Assistant Engineman*.*Hosemen.*

George H. Simmons,

Wallace A. Doe,

John J. O'Neil,

Engine Driver, Patrick C. Henry.*Hose Driver*, Howard E. Sherburne.

Hose Wagon built by John G. McIntosh, Providence, R. I., in 1893.

Engine built by the Silsby Mfg. Co., Seneca Falls, N. Y., in 1893.

HOSE COMPANY, No. 11.

ELMWOOD.

House on Oakland street.

WALTER A. VAUGHAN, *Captain*.RICHARD J. POWERS, *Lieutenant*.*Hosemen.*

Frederick H. Field,

Walter L. Medhurst,

William A. Millard,

Chester M. Chase,

Atmore L. Crandall,

Driver, Edmund H. Webber.

Hose Wagon built by Archibald Martin, Providence, R. I., in 1895.

ENGINE COMPANY, No. 12.

STILLMAN WHITE.

House junction Smith and Orms streets.

EDWIN G. ANDREWS, *Captain*.HORACE S. BLAKE, *Lieutenant*.CHARLES H. SHIPPEE, *Engineman*.GEORGE H. JOHNSON, *Assistant Engineman*.*Hosemen.*

Thomas H. Jenckes,

Clarence C. Thomas,

Robert H. Waller,

Engine Driver, Frank H. Linnell,*Hose Driver*, Leprelett W. Esten.

Combination Hose Wagon and Chemical Engine rebuilt by John G. McIntosh, Providence, R. I., in 1899. Engine built by Cole Brothers, Pawtucket, R. I., in 1871.

HOSE COMPANY, No. 13.

GOOD WILL.

House on Central street.

DANIEL A. NICHOLS, *Captain*.OWEN TRAINOR, *Lieutenant*.*Hosemen.*

Robert Bucklin,

Edmund S. Godfrey,

George H. Webber,

Harry Howe.

William F. Greene,

Driver, George Barbour.

Combination Hose Wagon and Chemical Engine rebuilt by Archibald Martin, Providence, R. I., in 1899.

ENGINE COMPANY, No. 14.

PUTNAM.

House on Putnam street.

JOHN H. HALL, *Captain*.PETER GREENE, *Lieutenant*.JOHN B. MILLER, *Engineman*.ISAAC L. BLACKMAR, *Assistant Engineman*.*Hosemen.*

John Regan,

William Benford,

Frank E. Carberry,

Engine Driver, Patrick Kelley,Frank Charlesworth, *Hose Driver*.

Hose Wagon built by John G. McIntosh, Providence, R. I., in 1893.
Engine built by the LaFrance Engine Co., Elmira, N. Y., in 1893.

HOSE COMPANY, No. 15.

WHAT CHEER.

House on Wickenden street.

ABNER G. ALLEN, *Captain*.EVERETT E. POTTER, *Lieutenant*.*Hosemen.*

Frank A. Scott,

William S. Fenner,

Henry Charlwood,

John H. Fischer.

Jeremiah Splan,

Driver, John L. Keith.

Hose Wagon built by Lewis L. Fales, Providence, R. I., in 1892.

ENGINE COMPANY, No. 16.

House corner of Branch avenue and Charles street.

ROBERT G. HASKINS, *Captain.*

RALPH A. WILBUR, *Lieutenant.*

ALBERT J. FLECKHAMER, *Engineman.*

JOSEPH A. DEVINE, *Assistant Engineman.*

Hosemen.

Owen McElroy,

Crawford A. Cornell,

Charles W. Gillooly,

Engine Driver, John J. O'Connor,

Albert C. Hammond, *Hose Driver.*

Hose Wagon built by Lewis L. Fales, Providence, R. I., 1892. Engine built by the Sibley Manufacturing Co., Seneca Falls, N. Y., in 1891.

HOSE COMPANY, No. 17.

House corner of North Main street and Doyle avenue.

WILLIAM H. GARVIN, *Captain.*

JAMES H. DEAN, *Lieutenant.*

Hosemen.

Robert P. Patterson,

John C. Kennedy,

Michael H. Cavey,

James B. Mulcahey,

Edward J. Nagle,

Driver, George A. Bugbee.

Combination Hose Wagon and Chemical Engine rebuilt by John G. McIntosh, Providence, R. I., 1899.

ENGINE COMPANY, No. 18.

O L I V E R E. G R E E N E .

House junction Broad and Rugby streets.

WILLIAM H. JOHNSON, *Captain.*

HENRY B. HALL, *Lieutenant.*

JOHN W. BOOTH, *Engineman.*

WILLIAM E. VIALI, *Assistant Engineman.*

Hosemen.

Joseph W. Johnson,

James T. Goff,

Bernard F. Sisson,

Engine Driver, Frank L. Thomas,

John A. Worth, *Hose Driver.*

Combination Hose Wagon and Chemical Engine built by the Fire Extinguisher Manufacturing Co., Chicago, Ill., in 1895. Engine built by Sibley Manufacturing Co., Seneca Falls, N. Y., in 1890.

ENGINE COMPANY, No. 19.

House corner Plainfield and Rye streets.

CHARLES T. WITCHELL, *Captain*.LEANDER D. DAWLEY, *Lieutenant*.JOHN GRAHAM, *Engineman*.THOMAS W. GIBBONS, *Assistant Engineman*.*Hosemen.*

Frank M. Tillinghast,

George A. Brown.

David A. Bigney,

Hose Driver, Albert L. E. Cornell.*Engine Driver*, William M. Barton.

Combination Hose Wagon and Chemical Engine built by Charles T. Holloway, Baltimore, Md., in 1898. Engine built by Silsby Manufacturing Co., Seneca Falls, N. Y.

HOSE COMPANY, No. 20.

House on Manton avenue.

THOMAS MCCOID, *Captain*.JAMES DOWLING, *Lieutenant*.*Hosemen.*

Michael J. Dugan,

Michael J. Hanley,

Frank N. Benchley,

William J. Maher.

Driver, Lewis A. Cutler.

Combination Hose Wagon and Chemical Engine built by C. T. Holloway, of Baltimore, Md., in 1897.

HOOK AND LADDER COMPANY, No. 1.

House on Exchange place.

JOSEPH W. CARPENTER, *Captain*.JOSEPH D. KENT, *Lieutenant*.*Laddermen.*

Charles R. Wyatt,

Charles F. McGowan,

Hugh McCartin.

Nahum E. Willard,

William Burke,

Jeremiah S. McDonald,

Charles W. Sherman,

Augustus F. Higgins.

Driver, Thomas H. Jones.

First size Hayes Truck built by the La France Fire Engine Company, Elmira, N. Y., in 1884.

HOOK AND LADDER COMPANY, No. 2.

House on Harrison street.

THOMAS R. GORTON, *Captain.*GILBERT S. INMAN, *Lieutenant.**Laddermen.*

Henry W. Irwin,

Walter S. Brown,

James Mulgrew,

Christopher Carpenter,

John E. Leonard,

Driver, Fred Owen.

Second size Hayes Truck built by the La France Fire Engine Company, Elmira, N. Y., 1889.

HOOK AND LADDER COMPANY, No. 3.

UNION.

House on Douglas avenue.

JAMES C. HUBBARD, *Captain.*GEORGE GOLDING, *Lieutenant.**Laddermen.*

Edwin H. Day,

William H. Holbrook,

Thomas H. Gibbons,

Christopher J. Read, Jr.

William J. Young,

Driver, William A. Berry.

Truck built by Seagrave Mfg. Co., Columbus, Ohio, 1901.

HOOK AND LADDER COMPANP, No. 4.

JOHN B. CHACE.

House on Wickenden street.

ADELBERT A. HOPKINS, *Captain.*EDMUND B. PECK, *Lieutenant.**Laddermen.*

William S. Robinson,

Martin Kane,

James Hall,

Walter B. Leonard,

Joseph F. McDonald,

Driver, Bernard J. Mulcahey.

Truck built by Seagrave Mfg. Co., Columbus, Ohio, 1902.

HOOK AND LADDER COMPANY, No. 5.

WILLIAM H. LUTHER.

House corner Public and Burnside streets.

JAMES R. DAVIS, *Captain*.CHARLES O. MESSINGER, *Lieutenant*.*Laddermen.*

Edward J. Hall,

George-T. Lawder,

Felix Rush,

William H. Buffum,

J. Edward Conneely,

Driver, Byron I. Keech.

Truck built by Moulton & Son, Providence, R. I., in 1885.

HOOK AND LADDER COMPANY, No. 6.

House corner Atwell avenue and America street.

JOHN HUTCHISON, *Captain*.WILLIAM E. SULLIVAN, *Lieutenant*.*Laddermen.*

John E. Meledy,

John H. Carley,

Michael H. Farrell.

James H. Penney.

Robert H. McDonald,

Driver, James McCartin.

Second size Hayes Truck built by the La France Fire Engine Company, Elmira, N. Y., in 1892.

HOOK AND LADDER COMPANY, No. 7.

House corner East avenue and Olney street.

CHARLES J. CONNOR, *Captain*.JOHN F. STACKPOLE, *Lieutenant*.*Laddermen.*

John D. Murphy,

Joseph F. Burke,

Edward S. Doherty,

James P. O'Sullivan,

Benjamin N. Brown,

Driver, Nicholas A. Falck.

Truck built by Seagrave & Co., Columbus, Ohio, in 1900.

HOOK AND LADDER COMPANY, No. 8.

House corner Laurel Hill avenue and Laban street.

FRED A. WALLACE, *Captain*.

CHARLES H. CARPENTER, *Lieutenant*.

Laddermen.

George H. Thurston,

Isaac W. Wyatt.

Driver, William H. Collins.

Truck built by Seagrave Mfg. Co., Columbus, Ohio; 1900.

PROVIDENCE PROTECTIVE COMPANY, No. 1.

Organized February 1, 1875.

House on Richmond street.

CHARLES H. SWAN, *Captain*.

DAVID G. KNOTT, *Lieutenant*.

Govermen.

Walter A. C. French,

Hugh P. Wood,

Frederick W. H. Goffe,

Robert H. Watson,

James E. O'Neil,

Driver, Manuel Burgess,

George T. Lonergan,

Driver, Ira B. Booth.

PROVIDENCE PERMANENT FIREMEN'S
RELIEF ASSOCIATION.

OFFICERS FOR THE YEAR 1903-04.

GEORGE A. STEERE, *President.*
GEORGE F. BATTEY, *Vice-President.*
WILLIAM H. JOHNSON, *Secretary.*
HOLDEN O. HILL, *Treasurer.*

RESOURCE COMMITTEE.

Owen McElroy, *Chairman.*

Joseph F. McDonald, John D. Murphy, Samuel Loxley,
Francis H. Morton, Jr., Fred A. Wallace, Clarence C. Thomas.

RELIEF COMMITTEE.

George H. Goff, *Chairman.*

John D. Jones, Francis H. Morton, Jr..

FINANCE COMMITTEE.

George F. Battey, *Chairman.*

Joseph W. Carpenter, Clarence C. Thomas.

BURIAL LOT COMMITTEE.

Clarence C. Thomas, *Chairman.*

Robert P. Patterson, Clarence E. Horton.

PUBLIC EDUCATION.

SCHOOL COMMITTEE.

[Elected by the People in November.]

FREDERICK RUECKERT, PRESIDENT.

HENRY B. ROSE, SECRETARY.

MEMBERS EX-OFFICIO.

AUGUSTUS S. MILLER, Mayor.

JOHN E. KENDRICK, President of the Common Council.

ROSWELL C. SMITH, Chairman of Committee on Education.

FIRST WARD.

	Term expires.
GEORGE G. WILSON	1906
WILLIAM H. McLAUGHLIN	1905
CHARLES MATTESON	1904

SECOND WARD.

JOHN P. BEAGAN	1906
RICHARD B. COMSTOCK	1905
BERNARD J. MARTIN	1904

THIRD WARD.

MICHAEL A. RATTIGAN	1906
WILLIAM J. CAIN	1905
JOSEPH H. GAINER	1904

FOURTH WARD.

Term expires

CLIFFORD H. GRIFFIN	1906
WILLIAM F. GLEASON	1905
LESTER S. HILL	1904

FIFTH WARD.

FREDERICK RUECKERT	1896
WILLIAM A. CRANSTON	1905
THOMAS W. WATERMAN	1904

SIXTH WARD.

ISAAC CROCKER	1906
WINTHROP A. RISK	1905
WALTER H. BARNEY	1904

SEVENTH WARD.

P. FRANCIS WALKER	1903
JOHN A. TILLOTSON	1905
JOHN L. SPRAGUE, JR.	1904

EIGHTH WARD.

GEORGE F. A. BEANE	1906
JOHN T. FARRELL	1905
ROBERT L. WALKER	1904

NINTH WARD.

EDWARD F. CARROLL	1906
WILLIAM A. H. GRANT	1905
CHARLES F. BEIRNE	1904

TENTH WARD.

JOSEPH J. CUNNINGHAM	1906
JOSEPH O. SAN SOUCI	1905
JAMES A. DEMPSEY	1904

STANDING COMMITTEES OF THE SCHOOL COMMITTEE.

FREDERICK RUECKERT,

President of the School Committee, is *ex-officio* a member of all Committees.

HENRY B. ROSE.

Secretary of Standing Committees.

COMMITTEE ON ACCOUNTS.

GEORGE F. A. BEANE, *Chairman*.

WILLIAM A. H. GRANT.

ISAAC CROCKER,

CHARLES F. BEIRNE,

JAMES A. DEMPSEY.

COMMITTEE ON ANNUAL REPORT.

GEORGE G. WILSON, *Chairman*.

THOMAS W. WATERMAN,

JAMES A. DEMPSEY,

JOSEPH H. GAINER,

MICHAEL A. RATTIGAN,

COMMITTEE ON APPORTIONMENT.

JOHN A. TILLOTSON, *Chairman*.

THOMAS W. WATERMAN,

WILLIAM F. GLEASON,

RICHARD B. COMSTOCK.

COMMITTEE ON BY-LAWS.

JOHN P. BEAGAN, *Chairman*.

WALTER H. BARNEY,

CLIFFORD H. GRIFFIN,

RICHARD B. COMSTOCK,

JOHN L. SPRAGUE, JR.

COMMITTEE ON DRAWING.

WALTER H. BARNEY, *Chairman*.

GEORGE G. WILSON,

CHARLES F. BEIRNE,

JOHN L. SPRAGUE, JR.,

BERNARD J. MARTIN.

COMMITTEE ON EDUCATION OF BACKWARD CHILDREN.

WINTHROP A. RISK, *Chairman*.

JOHN T. FARRELL,

WILLIAM H. McLAUGHLIN

JOHN L. SPRAGUE, Jr.,

EDWARD F. CARROLL.

COMMITTEE ON EVENING SCHOOLS.

P. FRANCIS WALKER, *Chairman.*

WILLIAM A. CRANSTON,	JOSEPH H. GAINER,
CLIFFORD H. GRIFFIN,	JOSEPH J. CUNNINGHAM.

EXECUTIVE COMMITTEE.

FREDERICK RUECKERT, *Chairman.*

WALTER H. BARNEY,	JOSEPH O. SAN SOUCL,
P. FRANCIS WALKER,	WILLIAM F. GLEASON.

COMMITTEE ON GRAMMAR AND PRIMARY SCHOOLS.

JOSEPH O. SAN SOUCL, *Chairman.*

ROBERT L. WALKER,	WILLIAM A. CRANSTON,
JOHN P. BEAGAN.	WINTHROP A. RISK.

COMMITTEE ON HIGH SCHOOLS.

GEORGE G. WILSON, *Chairman.*

LESTER S. HILL,	CLIFFORD H. GRIFFIN,
RICHARD B. COMSTOCK,	CHARLES MATTESON.

COMMITTEE ON HYGIENE.

JOHN L. SPRAGUE, JR., *Chairman.*

LESTER S. HILL,	WINTHROP A. RISK.
WILLIAM H. McLAUGHLIN,	EDWARD F. CARROLL.

COMMITTEE ON MUSIC.

ROBERT L. WALKER, *Chairman.*

THOMAS W. WATERMAN,	WILLIAM F. GLEASON,
JOHN A. TILLOTSON,	EDWARD F. CARROLL.

COMMITTEE ON PENMANSHIP.

ISAAC CROCKER, *Chairman.*

JOHN A. TILLOTSON.	WILLIAM A. H. GRANT,
CHARLES F. BEIRNE,	BERNARD J. MARTIN.

COMMITTEE ON PRIVATE SCHOOLS.

WILLIAM F. GLEASON, *Chairman.*

MICHAEL A. RATTIGAN.	JOHN T. FARRELL.
WILLIAM J. CAIN,	BERNARD J. MARTIN.

COMMITTEE ON RELATIONS TO THE CITY COUNCIL.

JOHN A. TILLOTSON, *Chairman*.

JOSEPH J. CUNNINGHAM.

AUGUSTUS S. MILLER, *Mayor ex-officio*.JOHN E. KENDRICK, PRESIDENT OF THE COMMON COUNCIL,
ex-officio.ROSWELL C. SMITH, CHAIRMAN OF THE JOINT STANDING
COMMITTEE ON EDUCATION, *ex-officio*.

COMMITTEE ON SCHOOL HOUSES.

CHARLES MATTESON

WILLIAM A. H. GRANT,

WILLIAM J. CAIN,

GEORGE F. A. BEANE.

JOHN T. FARRELL.

COMMITTEE ON SUMMER SCHOOLS.

CHARLES MATTESON,

LESTER S. HILL.

WILLIAM J. CAIN,

MICHAEL A. RATTIGAN.

JAMES A. DEMPSEY.

COMMITTEE ON TEXT BOOKS.

LESTER S. HILL,

WILLIAM A. H. GRANT,

ROBERT L. WALKER,

JOSEPH H. GAINER.

CHARLES MATTESON.

*CHAIRMEN OF WARD COMMITTEES.***FIRST WARD.****WILLIAM H. McLAUGHLIN.****SECOND WARD.****RICHARD B. COMSTOCK.****THIRD WARD.****JOSEPH H. GAINER.****FOURTH WARD.****CLIFFORD H. GRIFFIN.****FIFTH WARD.****WILLIAM A. CRANSTON.****SIXTH WARD.****WINTHROP A. RISK.****SEVENTH WARD.****JOHN L. SPRAGUE, JR.****EIGHTH WARD.****ROBERT L. WALKER.****NINTH WARD.****CHARLES F. BEIRNE.****TENTH WARD.****JOSEPH O. SAN SOU'CI.**

SUPERINTENDENT OF PUBLIC SCHOOLS.

WALTER H. SMALL.

ASSISTANT SUPERINTENDENTS,

SARAH D. BARNES,

ELLA L. SWEENEY.

HOFFMAN S. DORCHESTER, *Purchasing Agent.*JAMES H BARR, *Agent of Committee on School Houses.*

CLERKS.

MARY E. CARPENTER,

EMMA A. SWIFT,

EDITH D. SNOW.

SCHOOLS AND TEACHERS.

HIGH SCHOOLS.

ENGLISH HIGH SCHOOL.

DAVID W. HOYT.....	Principal.	
ALICE D. MUMFORD.....	First Assistant.	
SIDNEY A. SHERMAN.....	"	"
AGNES F. WILLIAMS.....	Second	"
ABBY M. B. SLADE.....	"	"
HARRIET P. FULLER.....	"	"
HOWARD D. DAY.....	"	"
AUGUSTUS T. SWIFT.....	"	"
FREDERICK H. READ.....	"	"
ROSAMOND R. LEAVENS.....	Third	"
HARRIET L. HAYWARD.....	"	"
FLORENCE A. WILLIAMS.....	"	"
HENRY O. TRIPP.....	"	"
SUSAN S. BRAYTON.....	"	"
FRANCES E. MOSHER.....	"	"
KATHARINE U. PEIRCE.....	"	"
LILLIAN B. MYNER.....	"	"
NORA G. WRIGHT.....	"	"
JOHN C. SWIFT.....	"	"
FRANK E. LAKEY.....	"	"
FLORENCE J. WHITING.....	"	"
ANNE P. WALKER.....	"	"
JAMES H. CHASE.....	(Tem.)	"

HARRIET E. PIERCE	Fourth Assistant.
HARRIET B. UTTER.....	" "
ADELAIDE H. ARNOLD.....	" "
MARY A. HALL.....	" "
ETHEL C. JAMESON	" "

CLASSICAL HIGH SCHOOL.

WILLIAM T. PECK.....	Principal.
HERBERT E. DRAKE.....	First Assistant.
E. HELENA GREGORY.....	" "
ELIZABETH G. HOYT.....	Second "
FREDERICK C. ADAMS.....	" "
R. ADELAIDE WITHAM.....	" "
HORACE E. JACOBS.....	" "
HARRIET M. HATHAWAY.....	Third "
ALICE R. SHEPPARD.....	" "
HENRY H. WATERMAN.....	" "
CHARLES E. PAINE.....	" "
FLORENCE P. CASE.....	Fourth "
CLARA WHITEHEAD	" "
ELIZABETH C. GRANT.....	" "
M. FLORENCE RAFTER.....	(Tem.) " "

MANUAL TRAINING HIGH SCHOOL.

GEORGE F. WESTON.....	Principal.
MINER H. PADDOCK.....	First Assistant.
ARTHUR L. WHEELER.....	Second Assistant.
FRANK A. SPRATT.....	" "
RUSSELL C. LOWELL.....	Third "
ROALDO F. COLWELL.....	" "
E. LINCOLN WOOD.....	(Tem.) " "
EDITH H. WILLISTON.....	Fourth "
EDA M. ROUND.....	" "
RUTH S. DEVEREUX.....	" "
ABBY L. MARLATT.....	First Assistant (Domestic Science).
MARY A. CARPENTER (Tem.)	Fourth Asst. (Domestic Science and Art).
LUCY H. PIERCE.....	Third Assistant (Domestic Art).
WILLIAM O. HAMBLIN.....	Second " (Drawing).
AUGUSTUS F. ROSE.....	Third " "
MARGARITA THOMPSON.....	Fourth " "
GARDNER B. WILLIS.....	Second " (Smithing).

FRED R. INMAN.....	Second Assistant	(Pattern Making and Foundry Work).
ARTHUR RAY	Third	" (Wood Work).
W. WASHINGTON DOVE..	Second	" (Modeling and Carving).
J. ABBOTT DAVIS.....	"	" (Machine Shop Practice).
ALVIN B. MARTIN.....	Third	" (Engineer).

HOPE STREET HIGH SCHOOL.

CHARLES E. DENNIS, JR.....	Principal.
ELLEN DODGE	First Assistant.
WALTER J. TOWNE.....	" "
VICTOR FRAZEE	Second "
IRENE SANIEWSKA	" "
ANNE T. WEEDEN	" "
CHARLES E. TILLEY.....	" "
JESSE L. BEERS.....	" "
FRANK A. TIBBETTS.....	" "
GRACE H. PARKER.....	Third "
ELIZA M. PEIRCE	" "
ALICE W. HUNT.....	" "
BESSIE S. WARNER	" "
SUSANNA Y. CUSHING.....	" "
M. CATHERINE MALEY.....	(Tem.) " "
FLORENCE H. SLACK.....	Fourth "
IDA B. SMITH.....	Junior Course.

HIGH SCHOOL TRAINING DEPARTMENT.

WALTER BALLOU JACOBS, A. M., Director.

Professor of Theory and Practice of Education. Brown University.

SUPERVISING TEACHERS.

CHARLES E. DENNIS, JR., PH. D.....	Latin.
CHARLES E. TILLEY, A. M.....	Physics and Geometry.
VICTOR FRAZEE, A. M.....	History.
HORACE E. JACOBS, A. M.....	Latin and Mathematics.
GRACE H. PARKER, A. B.....	Natural Science.
HARRIET P. FULLER, A. B.....	Latin.
FLORENCE J. WHITING, A. M.....	Physics.

STUDENT TEACHERS.

CHARLES F. BATES, PH. B.....	Latin. (C. H. S.)
ALICE S. CARROLL, A. B.....	Latin. (C. H. S.)
EDITH R. CLAPP, A. M.....	Botany and Physiology. (Hope St. H. S.)
JAMES W. DYSON, A. B.....	Physics, Geometry. (Hope St. H. S.)
ETHEL E. RICH, A. B.....	Latin. (Hope St. H. S.)
LESTER B. SHIFFEE, A. B.....	History. (Hope St. H. S.)

STUDENT TEACHERS OF THE SECOND TYPE.

THEODORE A. CORNELL, A. B.....	Physics. (E. H. S.)
ALMA STOCKARD, A. B.....	Latin. (E. H. S.)

GRAMMAR SCHOOLS.

ACADEMY AVENUE GRAMMAR SCHOOL.

LEWIS H. MEADER, *Principal*.

ASSISTANTS.

Adelaide D. Padelford,
Rachel G. Linton,
Emma J. Craig, (*critic*),
Hannah M. Crocker,
Francesca A. Manchester,
Ida A. McLane,
Sabra M. Anderson,

Alice M. Kinyon,
Elsie A. Hodgson,
Elizabeth S. Holland,
Alice O. Kimball,
Mary Campbell,
Loretta J. Farnum,
Jennie A. Donovan.

BRANCH AVENUE GRAMMAR SCHOOL.

REUBEN F. RANDALL, *Principal*.

ASSISTANTS.

Mary A. Kindelan,
Alice C. Tripp,
Clara L. Sullivan,
Mary J. Dunne,
Weltha Farwell,

Madeline E. Cooney,
Alice F. White.
Grace E. Kelleher,
M. Eustelle Devenish,
Ellen McCrillis.

BRIDGHAM GRAMMAR SCHOOL.

LEONARD H. CAMPBELL, *Principal*.

ASSISTANTS.

Lydia S. Durfee,
Lucy M. Beane,
Harriet A. Swan,
Caroline A. Vaughn,
Ida M. Thomas, *State Critic*,

Flora D. Spink,
Jennie L. Tobey,
Mary A. Cummings,
May A. Taylor.

BROAD STREET GRAMMAR SCHOOL.

RICHARD W. SMITH, *Principal*.

ASSISTANTS.

Mary C. S. Devereaux,	Louise F. Donahue,
Charlotte E. Caffrey,	Estelle C. Batchelder,
Estelle A. Barker,	Amy H. Stockbridge,
Emely W. Cushman,	Alice B. Mann,
Helen H. Huntsman.	

CANDACE STREET GRAMMAR SCHOOL.

E. HARRISON HOWARD, *Principal*.

ASSISTANTS.

Katharine C. Molloy,	Annie Carnoe,
Sarah E. Kelly,	Agnes A. Foster,
Harriet E. Wood,	Anna L. Burns,
Ellen L. Virgin,	Elizabeth C. Dawson,
Catherine A. O'Reilly,	Teresa A. O'Neil,
Elizabeth J. Molloy,	Catherine E. Nolan,
Ella Blackburn,	Elizabeth B. McLeod,
Margaret L. Kane,	Anna G. Cawley.

DOYLE AVENUE GRAMMAR SCHOOL.

NATHAN G. KINGSLEY, *Principal*.

ASSISTANTS.

Catherine D. Pike,	Minnie E. Niles.
Nellie G. Johnson, <i>State Critic</i> ,	Margaret C. Kelley,
Frances H. Fowler,	Mary E. Houghton,
Elizabeth L. Forbes,	Elizabeth T. Dunne,
S. Amelia Glaser,	Mary D. Phillips,
M. Eliza Douglass,	Mary A. McQuaid,
Florence H. C. Oliver,	Mary A. G. Dougherty,
M. Alma Grant,	Mary B. Leonard.

FEDERAL STREET GRAMMAR SCHOOL.

JOSEPH E. MOWRY, *Principal*.

ASSISTANTS.

Elinor F. Harris,	Alice C. Kelly,
Mary C. Hazard,	Mary L. Gilday,
Marion L. Gardiner.	Adela N. Padelford,
Dorcas B. Teel,	Susan A. Padien.
Mary B. Harris,	Laura A. Willard,
Emily A. Crosby,	Irene K. O'Reilly.

MANTON AVENUE GRAMMAR SCHOOL.**HERRICK P. YOUNG, *Principal*.****ASSISTANTS.**

Avis A. Hawkins,
Emily M. Corcoran,

Annie F. Emmons,
Alice M. Robinson,

Emma F. Manchester.

MESSER STREET GRAMMAR SCHOOL.**JOSEPH W. V. RICH, *Principal*.****ASSISTANTS.**

Laura I. French,
Marion A. Place,
Adah S. Watson,
Flora E. Angell,
Frances E. Watts,
Celia F. Cowing,

Annie L. Ring,
Janette V. Parmenter,
Cassandra M. Pierce,
Gertrude I. Stetson,
Sarah L. Sweet.
E. Gertrude Lyon.

OXFORD STREET GRAMMAR SCHOOL.**MARTIN S. FANNING, *Principal*.****ASSISTANTS.**

Mary A. S. Mugan, *Critic*,
Janet Blinkhorn,
Emma Grant,
Edith G. Freeman,
Eleanor Dunn,
Jennie O. Kennedy,

Anna T. Farrell,
Margaret G. Smith,
Susan E. Waite,
Margaret E. Sullivan,
Florence E. Carpenter,
Mary C. Greene.

PEACE STREET GRAMMAR SCHOOL.**GEORGE E. CHURCH, *Principal*.****ASSISTANTS.**

Charlotte Blundell, *critic*,
Mary E. Sullivan,
Anna S. Matteson,
Anna L. Bliven,
Minerva G. Curtis,

M. Florence Brown,
Amy P. Sheldon,
Emma F. Farrell,
Ruth F. Wright,
Amey L. Arnold,

Katharine M. A. Brennan.

POINT STREET GRAMMAR SCHOOL.

JAMES M. SAWIN, *Principal*.

ASSISTANTS.

Lucy C. Stanley,	Cora G. Crapon,
Laura E. Almy,	Jennie E. Graves,
Ellen A. Salisbury (<i>critic</i>),	Marie C. Hollen,
Isabella F. Martin,	Cora A. Delaney,
Mildred E. Moss,	Maude E. Armstrong,
Lucy M. Danielson,	Annie E. Campbell.

ROOSEVELT STREET GRAMMAR SCHOOL.

WILLIAM S. STEERE, *Principal*.

ASSISTANTS.

Ida A. Cunningham,	Jeannette A. McLaren,
Stella C. Allen (<i>critic</i>),	Eleanor J. Winsor,
Clarie L. Freethy,	Sallie E. Thornton,
Mary H. Seton.	

THAYER STREET GRAMMAR SCHOOL.

ISAAC O. WINSLOW, *Principal*.

ASSISTANTS.

Ellen L. Brown,	Eleanor H. Rhodes,
Mary Williams,	Anna M. Gerald,
Charlotte K. Clarke,	L. Linda Hunt.
Mary A. Helme,	Julia A. Dwyer,
Clara M. Polk,	Helen J. Hurley,
Ellen P. Froberg.	

VINEYARD STREET GRAMMAR SCHOOL.

WILLIAM H. EDDY, *Principal*.

ASSISTANTS.

Laura C. Burroughs,	Jane A. Smith,
Eleanor H. Burroughs,	Edith M. Ellingwood,
Annie R. Barbour,	Emma T. Padien,
Sarah E. Peckham,	Helen M. Almy.

PRIMARY SCHOOLS.

ADMIRAL STREET,	Annie Mahoney, Principal.
	Mary V. McCabe, Assistant.
AFRICA STREET,	Mabel H. White, Principal.
	Jane E. McGuirk, Assistant.
	Minnie W. Whitehead, Assistant.
	Florence P. Knight, Assistant.
ALMY STREET,	Lena D. Sheldon, Principal.
	Julia A. Waterman, Assistant.
	Florence L. Cowdrey, Assistant.
	Julia Pepper, Assistant.
	Ethel Burdick, Assistant.
ALTHEA STREET,	Annie C. Kenyon, Principal.
	Clara P. Dyer, Assistant.
	Margaret Healy, Assistant.
AMERICA STREET,	Jane L. Holt, Principal.
	Mattie A. Williams, Assistant.
	Martha J. Marshall, Assistant.
AMHERST STREET,	Louise M. Corcoran, Principal.
	Martha I. Olsen, Assistant.
	Mabel E. Jordan, Assistant.
	May Martin, Assistant.
ARNOLD STREET,	Mary E. Bicknell, Principal and Oritic.
	Charlotte C. Ingraham, Assistant.
	Fannie A. Greene, Assistant.
	Ida E. Morse, Assistant.
	Sarah D. Coleman, Assistant.
	Ella A. Greene, Assistant.
	Mary F. Augustus, Assistant.
	Mabel E. Williams, Assistant.
	Margaret J. McLellan, Assistant.
	Jessie M. Kimball, Assistant.
	Elizabeth G. Hale, Assistant.
ATWELL'S AVENUE,	Anna E. Cobb, Principal.
	Margaret M. Blessing, Assistant.
	Elizabeth McEntee, Assistant.
	Rosella A. McCabe, Assistant.

ATWELL'S AVENUE,

Kittie L. Pierce, Assistant.
 Laura H. Clark, Assistant.
 Margaret M. D'Arcy, Assistant.
 Ethel L. Hitchcock, Assistant.

BEACON AVENUE,

Imogene A. Truman, Principal and
 Critic.

Minnie L. Gallagher, Assistant.
 Mary E. Arnold, Assistant.
 Sarah F. Randall, Assistant.
 Ellen P. Brown, Assistant.
 Bessie C. Lyon, Assistant.

BEACON AVENUE (Old Building),

Caroline F. Slocomb, Kindergarten.
 Dora M. Edwards, Kindergarten.

BELLEVUE AVENUE,

Amelia E. Berg, Principal.
 Luella B. Snow, Assistant.
 A. Gertrude Maynard, Assistant.
 Flora E. Hunt, Assistant.

BENEFIT STREET,

Della S. Freeman, Principal and
 Critic.

Katherine C. Walsh, Assistant.
 Katherine M. Murray, Assistant.
 Lucy L. Hurley, State Critic.
 Marion A. Puffer, Assistant.
 Catherine F. Doran, Assistant.
 Helen M. Greene, Assistant.
 Martha Stone, Assistant.
 Mabel T. Gardner, Assistant.
 Sarah E. Walker, Assistant.
 Florence E. Crowninshield, Assistant.

BERKSHIRE STREET,

Anna G. Duffy, Principal.
 Carrie E. Drew, Assistant.
 Sarah T. McCabe, Assistant.
 Emma P. Hussey, Assistant.
 Minnie M. Kelley, Assistant.
 Sarah L. Kennedy, Assistant.
 Sara M. Hennessy, Tem. Assistant.
 Mary A. Hanley, Principal.
 Edythe K. S. Puffer, Assistant.
 Sarah M. Mulligan, Assistant.
 Harriet L. Giblin, Assistant.
 Lauraetta M. Dill, Assistant.

BERLIN STREET,

BERLIN STREET,	Henrietta C. Mann, Assistant. Mary L. Chapin, Assistant.
BOURN STREET,	Lucy A. Metcalf, Principal. Mary J. Quinn, Assistant. Rachel E. Walker, Assistant. Maude A. Millspaugh, Assistant.
BRANCH AVENUE,	Agnes McIver, Principal. Catharine H. Burton, Assistant. Anna V. Rice, Assistant. Mary A. Pidge, Assistant.
CALHOUN AVENUE,	Edith R. Allen, Principal and Critic. Florence M. Burt, Assistant. Bertha G. Salisbury, Assistant. Lucy E. Gannon, Assistant. Mary F. Curren, Assistant.
CALIFORNIA AVENUE,	Mary I. Tillinghast, Principal and Critic. Belle M. Rich, Assistant. Adelaide A. Wheeler, Assistant. Celia E. Clarke, Assistant.
CAMP STREET,	Emma L. Dunham, Principal. Mary E. Tempest, Assistant. Anna W. Capron, Assistant. Mary L. McKenna, Assistant.
CARPENTER STREET,	Ella L. Phillips, Principal. Mary E. Like, Assistant. Mary E. Douglass, Assistant. Maude L. F. Sweet, Assistant.
CHALKSTONE AVENUE,	Margaret A. Dawson, Principal. Hannah S. Bowen, Assistant. Clara V. McCarthy, Assistant. Ida A. Howard, Assistant. Gertrude M. Durrell, Assistant. Margaret B. Prendergast, Assistant. Mary G. Cooney, Assistant. M. Josephine Healey, Assistant. Jennie Macready, Assistant. Mary F. Towle, Assistant.
CHARLES STREET,	Ethel G. Laughlin, Assistant. Eliza A. McGuinness, Principal and State Critic.

CHARLES STREET,	Susan McElroy, Assistant. Mary F. Monroe, Assistant. Mary S. Houghton, Assistant. Margaret V. Mahoney, Assistant. Mary A. Farrell, Assistant. Florence A. Wheelwright, Assistant. Evelyn Staples, Assistant. Etta J. Seymour, Tem. Assistant.
CHESTER AVENUE,	Elizabeth L. Towne, Principal. Rosa Martin, Assistant. Minnie Sayles, Assistant. Lucy L. Blanchard, Assistant. Ellen M. Angell, Assistant.
COURTLAND STREET,	Florence M. Kennon, Principal. Harriet N. Lovett, Assistant. Margaret E. Tally, Assistant. Helen E. Sullivan, Assistant.
COVELL STREET,	Minnie W. Mason, Principal. Edith E. Heyworth, Assistant. Mary M. McKenna, Assistant. Carrie J. Crowell, Assistant.
DANIEL AVENUE,	Mary I. Grant, Principal. Lizzie L. Gurry, Assistant. Eugenie D. Burt, Assistant. Florence E. Chace, Assistant. M. Eustelle Devenish, Assistant.
EAST STREET,	Rebecca R. Cushing, Kindergarten. Mary D. Rickard, Kindergarten. Florence J. Bishop, Kindergarten.
EAST MANNING STREET,	Ellen M. Hopkins, Principal. Annie F. Bartlett, Assistant. M. Eliza Hurley, Assistant. Josephine Dillon, Assistant.
EDDY STREET,	Anella V. Remington, Principal. Margaret Gray, Assistant. Helen J. Cole, Assistant. Annie E. Walker, Assistant.
ELM STREET.	Jane S. Dix, Acting Principal. S. Frances Pike, Assistant. Bessie M. Blinkhorn, Assistant.

ELM STREET,	Abby C. Keleher, Assistant. Della M. Hayden, Assistant. Anna L. Gunnison, Assistant. Grace O. Adams, Assistant.
ELMWOOD AVENUE,	Maria F. Dunham, Principal and Critic. Eliza J. Hopkins, Assistant. Amelia S. Cory, Assistant. Emma W. Pierce, Assistant. Mattie D. Hall, Assistant.
FEDERAL STREET,	Teresa A. Sullivan, Principal. Ellen L. Killoran, Assistant. Laura A. Moran, Assistant. Maud A. Munster, Assistant. Anna C. Geary, Assistant.
FRIENDSHIP STREET,	Eudora E. Joslin, Principal. Mary C. Wheeler, Assistant. Charlotte M. Bradford, Assistant. Belle L. Lyons, Assistant.
GRAHAM STREET,	Jennie T. Coffey, Principal. Lillian G. Munnegle, Assistant. Annie L. Munnegle, Assistant. Winifred M. Rice, Assistant. Etta J. Seymour, Assistant.
GRELEY STREET.	Mary L. Cawley, Principal. Susan G. Leyden, Assistant. Catherine V. Keogh, Assistant. Mary E. McCaffrey, Assistant. Alice R. Collins, Assistant. Catherine A. Riordan, Assistant. Alice L. Mahy, Assistant. Grace M. Neal, Assistant.
GROVE STREET,	Lena O'Keefe, Principal. Jennie F. McKenna, Assistant. Ellen A. McGuirk, Assistant. Gertrude L. Huntington, Assistant. Margaret R. Magrath, Assistant. Margaret L. E. Hamill, Assistant. Stella B. Healy, Assistant. Catherine Halliwell, Assistant.

HAMMOND STREET,	Phebe A. Andrews, Principal. Abby P. Hopkins, Assistant. Mabel L. Blaney, Assistant. Carrie Payton, Assistant. Mary L. Pratt, Assistant.
HAMMOND STREET,	Martha A. Freeman, Assistant.
HARRIET STREET,	Maude H. Kittredge, Assistant. Elizabeth J. A. Farrell, Principal. Elizabeth Schaffer, Assistant. Alice C. Allen, Assistant. Julia P. Ward, Assistant. Julia M. O'Keefe, Assistant.
HARRIS AVENUE,	Ida E. Mather, Principal and Critic. Genevieve L. Darcy, Assistant. Helen E. Essex, Assistant.
HENDRICK STREET,	Elizabeth Holt, Principal. Catherine E. McCormack, Assistant. Catherine A. Denny, Assistant. Katharine J. McGrath, Assistant.
HIGHLAND AVENUE,	Abby V. Barney, Principal. Bertha M. Turner, Assistant. Abby W. Potter, Assistant. Alice A. Evison, Assistant.
IVES STREET,	Theresa G. Furlong, Principal. Katharine M. Dwyer, Assistant. M. Emily Cushing, Assistant. Pauline E. Tingley, Assistant.
JULIAN STREET,	Amy D. Hall, Principal. Etta M. Wildes, Assistant. Emma M. Budlong, Assistant. Edith M. Lewis, Assistant. Clara E. Bennett, Assistant. Fanny P. Haskins, Assistant. Lillian M. Congdon, Assistant.
KELLY STREET,	M. Etta Thomas, Principal. Lillie A. Maher, Assistant. Maude Farnum, Assistant. Grace E. Johnson, Assistant. Margaret L. Costello, Assistant. Bertha S. Bailey, Assistant. Maude E. Walker, Assistant.

KILLINGLY STREET,

Agnes G. Gormley, Principal.

Mary G. Walsh, Assistant.

Lena M. Arnold, Assistant.

Katherine Turbitt, Assistant.

MERINO AVENUE,

Mary A. E. Williams, Assistant.

Mary E. McCormick, Principal.

Mary Chase, Assistant.

Annie E. Hanley, Assistant.

R. Ella Moore, Assistant.

MONTAGUE STREET,

Jennie M. Macomb, Principal and
State Critic.

Gertrude P. Prouty, Assistant.

Helen S. Mann, Assistant.

Francesca de S. Cosgrove, Assistant.

Anna O. Foster, Assistant.

MOUNT PLEASANT AVENUE,

A. Elisabeth Burr, Assistant.

Mary J. Kenney, Principal.

Mary S. Raftery, Assistant.

Mary T. Haran, Assistant.

Alice B. Whittemore, Assistant.

Hattie D. Conley, Assistant.

Anna L. O'Connor, Assistant.

Eliza F. W. Taft, Assistant.

NIAGARA STREET,

Elizabeth J. D'Arcy, Principal.

Caroline M. Johnson, Assistant.

Elise T. Magnus, Assistant.

Lillie I. Browne, Assistant.

OLNEYVILLE (Primary),

Helen N. Allan.

PLAIN STREET,

Lucy W. House Principal and State
Critic.

May L. Watson, Assistant.

Emma Schaffer, Assistant.

POTTER AVENUE,

Orianna E. Nichols, Principal.

Ada Blinkhorn, Assistant.

Vera G. Sweet, Assistant.

Minnettie C. Beckwith, Assistant.

Mary E. Mykins, Assistant.

Mary C. Lee, Assistant.

Betsey E. Brown, Assistant.

Mary A. Harris, Assistant.

POTTER AVENUE,

Jessie M. Barton, Assistant.

Annie F. Cooney, Assistant.

PUBLIC STREET,

Mary E. Lincoln, Principal.

Anna L. Gorman, Assistant.

Mary E. Johnson, Assistant.

Elizabeth M. Feeley, Assistant.

PUTNAM STREET,

A. May Allen, Principal.

Elizabeth Turbitt, Assistant.

Annie M. C. Denney, Assistant.

Jeanie T. Mackay, Assistant.

Theresa M. Murphy, Assistant.

Nellie A. Farrell, Assistant.

Mabel L. Fenner, Assistant.

Hattie J. Mann, Assistant.

Rose L. Kelly, Assistant.

Ethel Ward, Assistant.

RALPH STREET,

Mabel T. Lowe, Principal.

Margaret A. T. O'Connor, Assistant.

Emma A. Potter, Assistant.

Nancy B. Howland, Assistant.

Alice M. Hazard, Assistant.

Lila S. Johnson, Assistant.

Annie W. Gibson, Assistant.

Nellie C. Read, Assistant.

Charlotte B. Hamlin, Assistant.

RING STREET,

Ella C. Bradley, Principal.

Mary C. Dunn, Assistant.

Margaret M. Colton, Assistant.

Annie L. Preston, Assistant.

Mary E. Gough, Assistant.

RIVER AVENUE,

Sarah L. Stetson, Principal and Critic.

Mary B. Cram, Assistant.

Isabella M. Connolly, Assistant.

ROGER WILLIAMS AVENUE.

Louise W. Pierce, Principal.

Edithe Austin, Assistant.

Helen Seabury, Assistant.

Emily H. Lyman, Assistant.

RUGGLES STREET,

Mabel Turner, Principal.

Katharine A. Hogan, Assistant.

Bertha F. Nolan, Assistant.

Caroline M. Munnegele, Assistant.

SIBSON STREET,	Sadie E. Barrett, Principal. Eva I. Fanning, Assistant. Minnie S. Woodward, Assistant. Marguerite L. Bishop, Assistant.
SLATER AVENUE.	Abbie A. Hathaway, Principal. Katharine M. Hurley, Assistant. Josephine Bishop, Assistant.
SMITH STREET.	Margaret H. Brennan, Principal. Mabel A. Bragg, Assistant. Mary L. Moran, State Critic. Genevieve B. Wallace, Assistant. Lizzie I. Fisher, Assistant. Frances R. Kern, Assistant. Jennie M. Eddy, Assistant. Ethel F. Brown, Assistant.
SOMERSET STREET,	Ida M. Budlong, Principal and Critic. Grace H. Bradford, Assistant. Winifred A. Dailey, Assistant.
STATE STREET,	Helen A. Reynolds, Principal. Mary G. Tasker, Assistant. Mary A. M. Peirce, Assistant. Mary J. Gorman, Assistant.
SUMMER STREET,	Elizabeth J. Cory, Principal. Julia D. Greene, Assistant. Jennie F. Work, Assistant. Emma F. Greene, Assistant. Phebe E. Wilbur, State Critic.
THAYER STREET,	Sarah A. Allen, Principal. Leoline N. Mowry, Assistant.
THURBER'S AVENUE,	Florence M. James, Principal. Mary A. Farrell, Assistant. Sarah W. Browning, Assistant. Martha J. Hawkins, Assistant. Marietta B. Billson, Assistant. Martha E. Feeley, Assistant.
VEAZIE STREET,	Lizzie A. Martin, Principal. Emmeline R. Crowell, Assistant. Elizabeth G. O'Malley, Assistant. Florence E. Bowen, Assistant. Marian L. Cooper, Assistant. Enid M. Pierce, Assistant.

WARREN STREET,	Elizabeth S. Robinson, Principal. Fannie W. Robinson, Assistant. Anna C. Magnus, Assistant. Mary E. Lovegrove, Assistant.
WEBSTER AVENUE,	Ella M. Pierce, Principal and Critic. Margaret G. Fallon, Assistant. Bertha S. Holloway, Assistant. Helen F. Holbrook, Assistant. Lizzie E. Chace, Assistant.
WILLARD AVENUE.	Fanny B. Brightman, Principal and Critic. Carrie L. McLaughlin, Assistant. A. Teresa O'Donnell, Assistant.
WILLOW STREET.	Annie T. Turner, Principal and State Critic. Elizabeth J. Tracy, Assistant. Etta A. Paul, Assistant. Mary C. W. Bowen, Assistant. Phebe A. Rathbone, Assistant. Margaret M. Shea, Assistant. Nellie Branch, Assistant. Lucy F. Covell, Assistant. Charlotte E. Ripley, Assistant.

SCHOOLS FOR INDIVIDUAL WORK.

ALDRICH STREET,	Maud W. Hersey,
	Sara Fletcher,
HARRISON STREET,	Katharine E. Taft,
	Mary T. B. Kelly.
	Ellen M. Adams.
HOSPITAL STREET,	Annie E. McCloy,
	Mary L. Young.
MEETING STREET,	Ellen I. Gage,
	Annie L. Stimpson.
MOUNT PLEASANT,	Eliza F. Gorman,
	Annie J. O'Toole,
	Mabel R. Lyon.
ORMS STREET,	Clara F. Perry,
	Harriet Parker.
PALLAS STREET,	S. Ida Phillips,
	Mary L. Anthony.

SCHOOLS FOR BACKWARD CHILDREN.

ACADEMY AVENUE,	Ella L. Slocomb,
BURNSIDE STREET,	Florence L. Everett.
SMITH'S HILL,	Fannie B. Wilbur.

KINDERGARTENS

ARE LOCATED IN THE FOLLOWING SCHOOLS.

Almy Street, *two sessions*, two teachers.
Arnold Street, *one session*, two teachers.
Beacon Avenue, *two sessions*, one teacher.
Bellevue Avenue, *two sessions*, two teachers.
Benefit Street, *one session*, two teachers.
Berkshire Street, *one session*, two teachers.
California Avenue, *one session*, two teachers.
Chalkstone Avenue, *one session* two teachers.
Charles Street, *two sessions*, two teachers.
Chester Avenue, *one session*, two teachers.
East Street, *one session*, two teachers.
Elm Street, *one session*, two teachers.
Graham Street, *two sessions*, one teacher.
Hammond Street, *two sessions*, two teachers.
Harriet Street, *one session*, two teachers.
Julian Street, *two sessions*, two teachers.
Kelly Street, *one session*, two teachers.
Montague Street, *two sessions*, two teachers.
Mt. Pleasant Avenue, *two sessions*, two teachers.
Potter Avenue, *two sessions*, two teachers.
Putnam Street, *one session*, two teachers.
Ralph Street, *one session*, two teachers.
Ring Street, *two sessions*, two teachers.
Sisson Street, *one session*, two teachers.
Smith Street, *one session*, three teachers.
Willow Street, *one session*, two teachers.
23 Kindergartens, 52 teachers.

DIRECTOR OF KINDERGARTENS.

BESSIE M. SCHOFIELD.

SPECIAL TEACHERS.

TEACHERS OF MUSIC.

EMORY P. RUSSELL, Director.

SARAH M. FARMER,

CORA I. HUDSON,

TEACHERS OF DRAWING.

HARRIETTE L. RICE, Director.

MARY F. RICHARDS,

LEONA HOPE.

TEACHER OF PHYSICAL TRAINING.

ELLEN LeGARDE, Director.

TEACHER OF PENMANSHIP.

MINNIE J. SCHUBARTH, Director.

TEACHERS ON LEAVE OF ABSENCE.

AMEY O. ALDRICH.

ETHEL M. KIMBALL.

M. MATILDA MIETT.

MARY A. TUCKER.

PERMANENT SUBSTITUTES.

JULIET A. ALLEN,

ADELINE Y. ARMINGTON,

ABBIE F. BUTLER,

PREBBE A. CUTTING,

HARRIET R. GREENE,

MARY A. LEE,

EMELINE A. SAYLES,

MARY C. SMITH,

ADELAIDE M. WATERMAN,

CAROLINE E. WORK.

LIBRARIAN TEACHERS' LIBRARY.

FLORENCE BROWN.

TRAINING SCHOOLS.

GRAMMAR

Academy Avenue, Emma J. Craig, Critic.
Oxford Street, Mary A. S. Mugan, Critic.
Peace Street, Charlotte Blundell, Critic.
Point Street, Ellen A. Salisbury, Critic.
Roosevelt Street, Stella C. Allen, Critic.

PRIMARY.

Arnold Street, Mary E. Bicknell, Critic.
Beacon Avenue, Imogene A. Truman, Critic.
Benefit Street, Della S. Freeman, Critic.
Oalhoun Avenue, Edith R. Allen, Critic.
Elmwood Avenue, Maria F. Dunham, Critic.
Harris Avenue, Ida E. Mather, Critic.
Killingly Street, Agnes C. Gormley, Critic.
River Avenue, Sarah L. Stetson, Critic.
Somerset Street, Ida M. Budlong, Critic.
Webster Avenue, Ella M. Pierce, Critic.
Willard Avenue, Fanny B. Brightman, Critic.

STATE TRAINING SCHOOLS.

GRAMMAR.

Bridgham, Ida M. Thomas, Critic.
Doyle Avenue, Nellie G Johnson, Critic.

PRIMARY.

California Avenue, Mary I. Tillinghast, Critic.
Charles Street, Eliza A. McGuinness, Critic.
Montague Street, Jennie M. Macomb, Critic.
Plain Street, Lucy W. House, Critic.
Smith Street, Mary L. Moran, Critic.
Summer Street, Phebe E. Wilbur, Critic.
Willow Street, Annie T. Turner, Critic.

PUPIL TEACHERS.

SECOND HALF-YEAR CLASS.

Bella Boas,
Miriam A. Clarke,
Carolyn D. Flagg,
Katharine E. Flynn,
Mary T. Holland,
Mary E. M. Hughes,
Geraldine M. Kilkenny,

Anna M. Killian,
Ada Little,
Ellen R. McCallion,
Frances M. McCarthy,
Jessie G. Perkins,
Agnes L. Turbitt,
Mabel M. Wallace.

FIRST HALF-YEAR CLASS.

Marion C. Abrams,
Annie F. Adams,
Lillian E. Crane,
Edith R. Danielson,
Mary C. Eaton,
Bertha L. Feeley,
Winifred E. Gleason,
Millie J. Hartly,
Olga J. Lunden,

Winifred H. McCusker,
Genevieve S. McNiff,
Winifred J. Monahan,
Clara Moore,
Mary C. Moran,
Mary W. O'Brien,
Emma G. Peirce,
Bessie I. Rogers,
Caroline J. Rothemich.

*SCHOOL CALENDAR.*1903-1904.

REGULAR MEETINGS OF THE SCHOOL COMMITTEE.

On the last Friday evening of each month, excepting July and August, at eight o'clock P. M.

Meeting for Organization of School Committee, on the first Tuesday in December.

TERMS.

First Term begins Monday, September 14, 1903.

First Term ends Friday, January 29, 1904.

Second Term begins Monday, February 8, 1904.

Second Term ends Friday, July 1, 1904.

QUARTERS.

First Quarter ends Friday, November 13, 1903.

Second Quarter ends Friday, January 29, 1904.

Third Quarter ends Friday, April 22, 1904.

Fourth Quarter ends Friday, July 1, 1904.

VACATIONS AND HOLIDAYS.

Rhode Island Institute of Instruction Recess, two days.

Thanksgiving Recess, from the Wednesday afternoon preceding Thanksgiving Day to and including the Friday following.

Christmas Recess of one week.

Winter Vacation of one week begins Saturday, January 30, 1904.

Washington's Birthday, Monday, February 22, 1904.

Spring Recess of one week begins Saturday, March 26, 1904.

Arbor Day, Friday, May 13, 1904.

Memorial Day, Monday, May 30, 1904.

EXHIBITIONS.

Annual Exhibitions of High Schools, Wednesday, June 29, 1904, or the evening preceding.

Annual Exhibitions of Grammar Schools, Friday, July 1, 1904, or the evening preceding.

The Schools re-open on the second Monday in September, viz.: September 12, 1904.

**FLAG DAYS FOR THE PUBLIC SCHOOLS OF
PROVIDENCE.**

1. Term Days. (The first and last of each school term.)
 2. Columbian Day. October 21.
 3. Pilgrim Day. December 22.
 4. Emancipation Day. January 1.
 5. Inauguration Day of City Government. First Monday in January.
 6. Lincoln Day. Grand Army Flag Day. February 12.
 7. Washington Day. February 22.
 8. Arbor Day. Second Friday in May.
 9. Memorial Day. May 30.
 10. Gaspee Day. June 10.
 11. Flag Day. June 14.
 12. Roger Williams Day. June 25.
 13. Independence Day. July 4.
 14. Special Days of Public Interest.
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STORM SIGNALS.

Given by Fire Alarm Bells and Special Gongs.

2-2 Repeated, 8 A. M.

No session for all schools. This signal will not be given except for a severe storm existing at that hour.

3-3 Repeated, 8.20 A. M.

No session for primary schools only.

2-2 Repeated, 11.30 A. M.

One session. When this signal is given, grades one to three will close at noon and there will be no afternoon session for them. Grades four to eight will continue one hour longer.

2-2 Repeated, 1.15 P. M.

No afternoon session for grammar and primary schools.

2-2 Repeated, 6.45 P. M.

No session for evening schools.

SALARIES.*

Aldermen	\$500 00
Assessors of Taxes.....	3,000 00
“ “ first assistant	28.74 per week.
“ “ second assistant	22.99 “ “
“ “ third assistant	22.99 “ “
“ “ fourth assistant	19.16 “ “
“ “ fifth assistant	19.16 “ “
Board of Canvassers and Registration.....	2,500 00
Two assistants	19.16 per week.
City Auditor	3,500 00
“ first assistant	30.00 per week.
“ second assistant	21.25 “ “
“ third assistant	17.50 “ “
City Clerk	3,500 00
“ first assistant	28.80 per week.
“ second assistant	23.05 “ “
“ third assistant	15.35 “ “
“ fourth assistant	10.00 “ “
Common Councilmen	300 00
City Engineer	4,500 00
City Gauger	fees.
City Registrar	fees.
City Solicitor	2,000 00
City Solicitor	6,000 00
“ first assistant	3,000 00
“ second assistant	2,000 00
City Treasurer	4,000 00
Deputy	2,500 00
One assistant	1,700 00
One assistant	1,500 00
One assistant	1,400 00
Two assistants	1,200 00
Two assistants	900 00
One assistant	750 00
One assistant	700 00
One assistant	6.00 per week.

* Where there is more than one holding a similar office, the salary is for each person.

City Weigher	fees.
Clerk of Committees	\$1,800 00
Clerk of Common Council	1,500 00
For assistance to the Clerk of Common Council and Clerk of Committees	1,000 00
Clerk of Municipal Court.....	1,700 00
Three assistants.....	11.55 per week.
One assistant	10.00 " "

Elections:

District Wardens and Clerks, for each day of an Election	10 00
Supervisors, for each day of an Election.....	10 00
Harbor Master	1,200 00
Inspector of Steam Boilers	fees.
Inspector of Buildings	1,800 00
" " one assistant	25.00 per week.
" " one clerk	16.00 " "
Inspector of Kerosene	fees.
Inspector of Milk	2,000 00
Two Collectors of samples	15.00 per week.
Inspector of Plumbing	1,800 00
" " two assistant inspectors	21.00 per week.
" " clerk	15.00 " "
Inspector of Provisions	1,200 00
Judge of the Municipal Court	2,000 00
Justices of the Police Court, each	1,000 00
Mayor	5,000 00
Mayor's Clerk	1,000 00
Medical Inspector	1,500 00
North Burial Ground, Superintendent of	1,500 00
" " " " " one clerk	19.16 per week.
" " " " " one assistant clerk	2.00 " day.
Overseer of the Poor	2,000 00
Recorder of Deeds	1,800 00
" " seven assistants	11.50 per week.
" " one assistant	9.00 " "
Sanitary Inspector	1,200 00
Sealer of Weights and Measures.....	2,000 00

Superintendent of Health	\$2,000 00
" " one clerk	9.00 per week.
Superintendent of Public Buildings	2,200 00
" " " one assistant	25.00 per week.
Supervising Engineer under the Smoke Nuisance Act..	1,000 00
Surveyor of Lumber	fees.

BRIDGE DEPARTMENT.

Superintendent of Point street bridge	\$3.00 per diem.
Assistant Superintendent of Point street bridge	2.75 " "
Day Engineer of Point street bridge	2.50 " "
Night Engineer of Point street bridge	2.50 " "
Superintendent of Washington bridge and rent of house.	2.00 " "
Engineer at Washington bridge.....	2.00 " "
Night Watchman at Washington bridge.....	11.50 per week.
Superintendent of Red bridge and occupancy of toll house	2.00 per diem.
Engineer of Red bridge	2.00 " "
Night Watchman of Red bridge	11.50 per week.

FIRE DEPARTMENT.

Commissioners	\$800 00
Clerk	2,000 00
Chief Engineer	2,000 00
Deputy Chief Engineer	1,500 00
Assistant Engineers	1,400 00
Superintendent of Fire Alarm	1,800 00
Foreman	3.50 per diem.
Assistant Foreman	3.15 " "
Enginemmen	3.25 " "
Privates—First Grade	3.00 " "
" Second "	2.87 " "
" Third "	2.33 " "
" Fourth "	2.00 " "

PARK DEPARTMENT.

Superintendent of Parks	38.50 per week.
Curator of Museum at Roger Williams Park.....	25.00 " "

POLICE DEPARTMENT.

Commissioners	\$3,000 00
Secretary	1,500 00

SALARIES.

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Clerk	\$1,000 00
One stenographer	6.00 per week.
One stenographer	9.00 " "
One stenographer	12.00 " "
Chief	2,500 00
Deputy Chief	2,000 00
Police Surgeon	1,200 00
Drill Master	400 00
Captains	26.90 per week.
Lieutenants	3.25 per diem.
Sergeants	3.13 " "
Captain of Police Detectives.....	26.90 per week.
Detectives	3.75 per diem.
Superintendent of Hacks	3.25 " "
First Police Matron.....	11.50 per week.
Second "	9.61 " "
Patrolmen after three years' consecutive service	3.00 per diem.
Patrolmen after eighteen months' consecutive service, and less than three years, not exceeding	2.75 " "
Patrolmen, after one year's service, and less than eighteen months, not exceeding	2.50 " "
Patrolmen	2.25 " "

PUBLIC WORKS.

Commissioner	\$5,000 00
Secretary	2,400 00
Bookkeeper	23.00 per week.
Chief Clerk	34.00 " "
One clerk	30.00 " "
One clerk	27.00 " "
Two clerks	21.25 " "
Two clerks	19.18 " "
Two clerks	18.00 " "
One clerk	15.00 " "
Inspector of water fixtures.....	23.00 " "
Superintendent of highways	34.00 " "
Superintendent of pipe work.....	28.00 " "
Pumping engineer, Hope station.....	23.00 " "
Superintendent at Pettaconsett station	28.75 " "
Pumping engineer at Pettaconsett station.....	21.25 " "
Assistant pumping engineer, Pettaconsett station.....	19.16 " "
Superintendent of sewer work.....	34.00 " "

Pumping engineer at Ernest street station.....	\$23.00 per week.
Assistant pumping engineer at Ernest street station...	21.25 " "
Superintendent at sewage precipitation tanks.....	32.00 " "

SCHOOL DEPARTMENT.

Superintendent of Public Schools.....	\$4,000 00
First Assistant Superintendent	2,000 00
Second Assistant Superintendent	1,500 00
Secretary of School Committee and Clerk of Standing Committees	2,200 00
Clerks	2,100 00
Purchasing agent	1,500 00
Agent, Committee on School Houses	1,200 00
Truant Officer	1,500 00
Truant Officer's clerk.....	480 00

PUBLIC SCHOOL TEACHERS.

Principals of high schools.....	\$2,500 00
First assistants in high schools....	\$1,000 00 to \$1,800 00 and 2,000 00
Second " " "	1,300 00 to 1,500 00
Third " " "	1,000 00 to 1,200 00
Fourth " " "	600 00 to 900 00
Teachers-in-training in the high schools.....	400 00
Principals in fourteen grammar schools.....	2,000 00
Principal in one grammar school.....	1,500 00
Assistants in grammar and primary schools:	
For their first year of service.....	400 00
For their second year.....	450 00
For their third year.....	500 00
For their fourth year.....	550 00
For their fifth and subsequent years, the maximum salary allowed for the positions to which they are appointed:	
Grades one to five.....	600 00
" six and seven.....	625 00
" eight	675 00
" nine	750 00
Principals of primary schools of six or more rooms.....	675 00
Other principals of primary schools.....	650 00
Critic teachers, grammar grade.....	800 to \$1,000 00

Critic teachers, primary grade (in addition to other salary)	\$75 00 to \$150 00
Pupil teachers	250 00
Director of Kindergarten Schools	1,000 00
Kindergarten teachers, two sessions, same as primary teachers.	
Kindergarten teachers, one session.....	\$300 00 to \$400 00
Principals of schools for individual work and backward children	750 00
Assistants in schools for individual work and backward children	500 00 to 675 00
Director of music	2,000 00
Assistant teachers of music, each.....	1,000 00
Director of drawing	1,800 00
Assistant teachers of drawing, each.....	1,000 00
Director of physical training.....	1,200 00
Director of Penmanship.....	1,000 00

WARDS.

FIRST WARD.

All that part of the City of Providence bounded by the Seekonk river, a line through the centre of Providence river to the northerly line of Burnside bridge, thence in a direct line to the northeasterly corner of Exchange bridge, thence in a straight line to Friend street, Friend, North Main, Waterman, Benefit, Jenckes, Barnes, Hope, Angell street and Angell street extended, shall constitute the first ward.

SECOND WARD.

All that part of the City of Providence bounded by Seekonk river, city line, Moshassuck river, Branch avenue, the easterly line of the railroad property operated by the New York, New Haven and Hartford Railroad Company, Charles, Stevens, North Main, Benefit, Jenckes, Barnes, Hope and Angell streets and Angell street extended, shall constitute the second ward.

THIRD WARD.

All that part of the City of Providence bounded by city line, Smith, North Main, Star, Benefit, North Main, Stevens, and Charles streets, the easterly line of the railroad property operated by the New York, New Haven and Hartford Railroad Company, Branch avenue and Moshassuck river, shall constitute the third ward.

FOURTH WARD.

All that part of the City of Providence bounded by a line from the northeasterly corner of Exchange bridge to Friend street, Friend, North Main, Waterman, Benefit, Star, North Main and Smith streets. Chalkstone avenue, Ayrault, Valley, Rathbone, and Promenade streets, the range of Acorn street, Acorn street, Harris avenue, Dean, Westminster, Cranston, Pearl, Broad, Lockwood, Friendship, Point, Plain, and Elm streets and Elm street extended to centre of Providence river and by said centre of Providence river to north side of Burnside bridge, thence in a straight line to point of beginning, shall constitute the fourth ward.

FIFTH WARD.

All that part of the city of Providence bounded by Providence river, Elm street extended, Elm, Plain, Point, Friendship, Lockwood and Broad streets, Elmwood avenue, Burnett, Public street and Public street extended, shall constitute the fifth ward.

SIXTH WARD.

All that part of the City of Providence bounded by Providence river, city line the westerly line of the railroad property operated by the New York, New Haven and Hartford Railroad Company, Carter street extended, Carter street, Elmwood avenue, Public street and Public street extended, shall constitute the sixth ward.

SEVENTH WARD.

All that part of the City of Providence bounded by city line, Cranston, Messer, Willow, Sycamore, Westminster, Dexter, Division, Bridgham, Cranston and Pearl streets, Broad street, Elmwood avenue, Burnett and Public streets, Elmwood avenue, Carter street, Carter street extended, and the westerly line of the railroad property operated by the New York, New Haven and Hartford Railroad Company, shall constitute the seventh ward.

EIGHTH WARD.

All that part of the City of Providence bounded by city line, Cranston, Messer, Willow, Sycamore, Westminster, Bainbridge avenue, Broadway and Westminster street, Olneyville square, Manton avenue, Erastus street, Atwell's and Manton avenues, and the westerly line of the Dyerville Manufacturing Company's plat, recorded in the Recorder's Office, Providence, on plat card No. 601, and said line extended shall constitute the eighth ward.

NINTH WARD.

All that part of the City of Providence, bounded by Woonasquatucket river, Acorn, Harris avenue, Dean, Westminster, Cranston, Bridgham, Division, Dexter and Westminster streets, Bainbridge avenue, Broadway, Westminster street, Olneyville square and Manton avenue, shall constitute the ninth ward.

TENTH WARD.

All that part of the City of Providence bounded by city line, Smith street, Chalkstone avenue, Ayrault, Valley, Rathbone and Promenade streets, Woonasquatucket river, Manton avenue, Erastus street, Atwell's and Manton avenues, and the westerly line of the Dyerville Manufacturing Company's plat, recorded in the Recorder's office, Providence, on plat card No. 601, and said line extended, shall constitute the tenth ward.

VOTING DISTRICTS.

FIRST WARD.

1. All that part of said ward bounded by Waterman, Hope, Barnes, Jenckes and Benefit streets, shall constitute the first voting district.

2. All that part of the first ward bounded by Waterman, Hope, Angell, Governor, Transit and Brook streets, shall constitute the second voting district.

3. All that part of said ward bounded by Seekonk river, Angell street extended, Angell, Governor and Williams streets and Williams street extended, shall constitute the third voting district.

4. All that part of said ward bounded by Seekonk river, Williams street extended, Williams, Governor, Transit and Hope streets, and the lines between the property now or formerly of the estate of John Carter Brown, occupied by John R. White & Son, and the property of the New York, New Haven and Hartford Railroad Company, shall constitute the fourth voting district.

5. All that part of said ward bounded by Providence river, Transit and Hope streets, and the lines between the property now or formerly of the estate of John Carter Brown, occupied by John R. White & Son, and the property of the New York, New Haven and Hartford Railroad Company, and Seekonk river, shall constitute the fifth voting district.

6. All that part of said ward bounded by Providence river, Transit, Brook, Waterman, North Main, Friend and a line from Friend street to the northeasterly corner of Exchange bridge, shall constitute the sixth voting district.

SECOND WARD.

1. All that part of said ward bounded by North Main, Pleasant, Hope and Olney streets, shall constitute the first voting district.

2. All that part of said ward bounded by Stevens and Charles streets, the easterly line of the railroad property operated by the New York, New Haven and Hartford Railroad Company, Branch avenue and Moshassuck river, shall constitute the second voting district.

3. All that part of said ward, bounded by Seekonk river, city line, Moshassuck river, Stevens and North Main streets, Rochambeau avenue, the line between Swan Point Cemetery and the property of the Butler Hospital for the Insane, shall constitute the third voting district.

4. All that part of said ward bounded by Hope, Pleasant, and North Main streets and Rochambeau avenue, shall constitute the fourth voting district.

5. All that part of said ward bounded by Seekonk river, Angell street extended, Angell, Hope, Barnes, Jenckes, Benefit, North Main, Olney and Hope streets, Rochambeau avenue and the line between Swan Point Cemetery and the property of Butler Hospital for the Insane, shall constitute the fifth voting district.

THIRD WARD.

1. All that part of said ward bounded by Charles, Stevens, North Main, Benefit, Star, North Main and Smith streets and the easterly line of the railroad property operated by the New York, New Haven and Hartford Railroad Company, shall constitute the first voting district.

2. All that part of said ward bounded by Smith street, Chalkstone avenue, and Candace street, Douglas avenue, Orms street, and the easterly line of the railroad property operated by the New York, New Haven and Hartford Railroad Company, shall constitute the second voting district.

3. All that part of said ward bounded by Orms street, Douglas avenue, Filmore street, Admiral and Charles streets, and the easterly line of the railroad property operated by the New York, New Haven and Hartford Railroad Company, shall constitute the third voting district.

4. All that part of said ward bounded by city line, Smith street, Chalkstone avenue, Candace street, Douglas avenue, Filmore and Admiral streets, shall constitute the fourth voting district.

5. All that part of said ward bounded by city line, Admiral, Hawkins and Charles streets, shall constitute the fifth voting district.

6. All that part of said ward bounded by city line, Charles, Hawkins, Admiral and Charles streets, the easterly line of the railroad property operated by the New York, New Haven and Hartford Railroad Company, Branch avenue and Moshassuck river, shall constitute the sixth voting district.

FOURTH WARD.

1. All that part of said ward bounded by Smith, North Main, Star, Benefit, Waterman, North Main and Friend streets, a line to north-easterly corner of Exchange bridge, Providence river, Westminster, Walnut, Washington, Jackson and Federal streets, Broadway, Bourn, Aborn and Cedar streets, Brayton avenue and Brayton avenue extended,

Woonasquatucket river, Gaspee and Francis streets shall constitute the first voting district.

2. All that part of said ward bounded by Providence river, Westminster, Burrill, Weybosset, Chestnut, Friendship, Plain, and Elm streets and Elm street extended, shall constitute the second voting district.

3. All that part of said ward bounded by Broad, Lockwood, Friendship, Point, Plain, Friendship and Chestnut streets, shall constitute the third voting district.

4. All that part of said ward bounded by Broad, Pearl, Cranston, Westminster, Dean, Fountain, Jackson, Washington, Walnut, Westminster, Burrill and Weybosset streets, shall constitute the fourth voting district.

5. All that part of said ward bounded by Woonasquatucket river, Acorn street, Harris avenue, Dean, Fountain, Jackson and Federal streets, Broadway, Bourn, Aborn, and Cedar streets, Brayton avenue and Brayton avenue extended, shall constitute the fifth voting district.

6. All that part of said ward bounded by Rathbone, Valley and Ayrault streets, Chalkstone avenue, Smith, Francis and Gaspee streets and Woonasquatucket river shall constitute the sixth voting district.

FIFTH WARD.

1. All that part of said ward bounded by Providence river, Elm street extended, Elm, Plain, Blackstone street and Blackstone street extended, shall constitute the first voting district.

2. All that part of said ward bounded by Providence river, Blackstone street extended, Blackstone street, Prairie avenue, Public street and Public street extended shall constitute the second voting district.

3. All that part of the fifth ward bounded by Public street, Prairie and Willard avenues, Broad and Plenty streets, Elmwood avenue and Burnett street, shall constitute the third voting district.

4. All that part of said ward bounded by Broad, Friendship, Lockwood and Broad streets, Elmwood avenue and Plenty street, shall constitute the fourth voting district.

5. All that part of said ward bounded by Broad, Friendship and Lockwood streets, Prairie and Willard avenues, shall constitute the fifth voting district.

6. All that part of said ward bounded by Lockwood, Friendship, Point, Plain and Blackstone streets, and Prairie avenue, shall constitute the sixth voting district.

SIXTH WARD.

1. All that part of said ward bounded by Providence river, Public street extended, Public street, Prairie avenue, Sayles street and Sayles street extended, shall constitute the first voting district.

2. All that part of the sixth ward bounded by Providence river, Sayles street extended, Sayles and Ocean streets, Thurber's avenue, Broad street, Prairie and Pavilion avenues, Hylestead street, Thurber's avenue and Thurber's avenue extended, shall constitute the second voting district.

3. All that part of said ward bounded by Providence river, city line, Broad street, Prairie and Pavilion avenues, Hylestead street and Thurber's avenue and Thurber's avenue extended, shall constitute the third voting district.

4. All that part of said ward bounded by city line, Broad street, Atlantic and Reservoir avenues, and the westerly line of the railroad property operated by the New York, New Haven and Hartford Railroad Company, shall constitute the fourth voting district.

5. All that part of said ward bounded by Reservoir and Atlantic avenues, Broad and Public streets, Elmwood avenue, Carter street, Carter street extended, and the westerly line of the railroad property operated by the New York, New Haven and Hartford Railroad Company, shall constitute the fifth voting district.

6. All that part of said ward bounded by Broad and Public streets, Prairie avenue, Sayles and Ocean streets and Thurber's avenue, shall constitute the sixth voting district.

SEVENTH WARD.

1. All that part of said ward bounded by Broad street, Elmwood avenue, Wilson, Dexter, Cranston and Pearl streets, shall constitute the first voting district.

2. All that part of said ward bounded by Chapin avenue, Cranston, Bridgham, Division, Dexter, Westminster, Sycamore and Willow and Messer streets shall constitute the second voting district.

3. All that part of said ward bounded by Chapin avenue, Cranston, Dexter and Wilson streets, Elmwood avenue, Hanover, Cranston and Messer streets, shall constitute the third voting district.

4. All that part of the seventh ward bounded by Potter and Elmwood avenues, Public and Burnett streets, Elmwood avenue, Hanover and Cranston streets, shall constitute the fourth voting district.

5. All that part of said ward bounded by Potter and Elmwood avenues, Carter street and Carter street extended, thence bending southerly the westerly line of the railroad property operated by the New York, New Haven and Hartford Railroad Company, the city line, and Cranston street, shall constitute the fifth voting district.

EIGHTH WARD.

1. All that part of said ward bounded by city line, Hartford avenue, Heath street, Eastwood and Webster avenues, Plainfield street, Olneyville squares, Manton avenue, Erastus street, Atwell's and Manton avenues and the westerly line of the Dyerville Manufacturing Company plat, recorded in Recorder's Office, Providence, on plat card No. 601 and said line extended shall constitute the first voting district.

2. All that part of said ward bounded by city line, Pocasset avenue, Plainfield street, Olneyville square, Westminster street, Broadway and the westerly line of the railroad property formerly owned by the Hartford, Providence and Fishkill Railroad Company, shall constitute the second voting district.

3. All that part of said eighth ward bounded by the city line, Cranston, Messer, and Willow streets, and Willow street extended, and the westerly line of the railroad property formerly owned by the Hartford, Providence and Fishkill Railroad Company, shall constitute the third voting district.

4. All that part of said ward bounded by the city line, Hartford avenue, Heath street, Eastwood and Webster avenues, Plainfield and Killingly streets, and Sunset avenue, shall constitute the fourth voting district.

5. All that part of said ward bounded by city line, Pocasset avenue, Plainfield and Killingly streets and Sunset avenue, shall constitute the fifth voting district.

6. All that part of said eighth ward bounded by Broadway, Bainbridge avenue, Westminster, Sycamore, and Willow streets, and Willow street extended, and the westerly line of the railroad property formerly owned by the Hartford, Providence and Fishkill Railroad Company, shall constitute the sixth voting district.

NINTH WARD.

1. All that part of the ninth ward bounded by Cranston, Westminster and Dean streets, Broadway and Knight street, shall constitute the first voting district.

2. All that part of said ward bounded by Broadway, Bainbridge avenue, Westminster, Dexter, Division, Bridgham, Cranston and Knight streets, shall constitute the second voting district.

3. All that part of said ward bounded by Broadway, Almy, Gesler and Ridge streets, Atwell's avenue and Vinton street, shall constitute the third voting district.

4. All that part of said ward bounded by Atwell's avenue, Woonasquatucket river, Manton avenue, Olneyville square, Westminster street, Broadway, Almy, Gesler and Ridge streets, shall constitute the fourth voting district.

5. All that part of said ward bounded by Atwell's avenue, Woonasquatucket river, Acorn street, Harris avenue, Dean street, Atwell's and Arthur avenues, Africa and America streets, Atwell's avenue, and Sutton, Lee and Vinton streets, shall constitute the fifth voting district.

6. All that part of said ward bounded by Broadway, Dean street, Atwell's and Arthur avenues, Africa and America streets, Atwell's avenue, Sutton, Lee and Vinton streets, shall constitute the sixth voting district.

TENTH WARD.

1. All that part of the tenth ward bounded by Woonasquatucket river, Atwell's and Academy avenues, Andem and Canton streets, Chalkstone avenue, Harold, Valley and Eagle streets, shall constitute the first voting district.

2. All that part of said ward bounded by Woonasquatucket river, Manton avenue, Julian street and Atwell's avenue, shall constitute the second voting district.

3. All that part of said ward bounded by Atwell's avenue, Julian street, Manton avenue and Erastus street, shall constitute the third voting district.

4. All that part of said ward bounded by Atwell's and Academy avenues, Andem and Canton streets, Chalkstone and Mount Pleasant avenues, and Mount Pleasant avenue extended, shall constitute the fourth voting district.

5. All that part of said ward bounded by Academy, Chalkstone and Mount Pleasant avenues, and Mount Pleasant avenue extended, Atwell's and Manton avenues, the westerly line of the Dyerville Manufacturing Company's plat, recorded in the Recorder's office, Providence, on Plat Card number 601, said line extended, the city line, the brook, or water-course, which runs from the city line through the property of the State Home and School, shall constitute the fifth voting district.

6. All that part of said ward bounded by Smith street, Chalkstone avenue, Ayrault, Valley and Rathbone streets, Woonasquatucket river, Eagle, Valley and Harold streets, Chalkstone and Academy avenues, the brook, or water-course, which runs from the city line through the property of the State Home and School, and the city line, shall constitute the sixth voting district.

District lines are subject to change by the Board of Canvassers and Registration.

ANNEXATION.

Portion of town of Cranston annexed to city in 1868, now a portion of the sixth and seventh wards. (Formerly the old ninth ward.)

Portion of town of North Providence annexed to city in 1874. (Tenth ward.)

Portion of town of Johnston annexed to city June 1, 1898, now a portion of eighth ward. (Formerly third district of eighth ward.)

Land taken from Town of Cranston and added to Roger Williams Park, in 1887. See Act of General Assembly, January 5, 1886; also about three-quarters of a square mile taken from said town and added to said park in 1892, see Chapter 1140, Public Laws, 1892.

Area of the city is 18 29-100 square miles.

POPULATION

OF THE TOWN AND CITY OF PROVIDENCE FROM 1708 TO 1904.

1708.....1,446	1810.....10,071	1878..... 99,682
1730..... 3,916	1820.....11,767	1880.....104,852
1748..... 3,452	1830.....16,836	1883.....116,755
1755..... 3,159	1840.....23,172	1885.....118,070
1774..... 4,321	1850.....41,513	1890.....132,146*
1776..... 4,355	1860.....50,666	1893.....148,944†
1782..... 4,310	1865.....54,595	1895.....145,472‡
1790..... 6,380	1870.....68,904	1900.....175,597*
1800..... 7,614	1875.....100,675	1904 (estimated)..193,000

* United States Census.

† City Census.

‡ State Census.

VALUATION AND TAXATION.

From 1832 to 1903.

YEAR.	ASSESSORS' VALUATION.			Rate of Tax.	Am't of Tax.
	Real Estate.	Personal Est.	Total.		
1832....	\$6,838,300	\$5,282,900	\$13,121,200	\$3 30 per \$1,000	\$40,000 00
1833....	7,047,900	5,570,300	12,618,200	3 17 " "	40,000 00
1834....	7,257,500	5,687,400	12,944,900	3 09 " "	40,000 00
1835....	7,414,100	5,919,233	13,333,333	3 00 " "	40,000 00
1836....	7,646,900	6,548,600	14,195,500	3 17 " "	45,000 00
1837....	7,953,900	6,562,200	14,516,100	3 10 " "	45,000 00
1838....	8,293,500	7,091,116	15,384,616	3 25 " "	50,000 00
1839....	8,577,300	7,364,729	15,942,290	3 45 " "	55,000 00
1840....	8,976,800	8,218,900	17,195,700	3 78 " "	65,000 00
1841....	9,408,700	9,109,800	18,518,500	3 78 " "	70,000 00
1842....	9,757,100	9,161,819	18,918,919	3 70 " "	70,000 00
1843....	11,706,100	10,033,100	21,739,200	3 05 " "	75,000 00
1844....	12,167,200	10,328,300	22,495,500	3 60 " "	80,983 80
1845....	12,977,500	10,731,600	23,729,100	3 80 " "	90,170 58
1846....	14,676,900	10,916,300	25,593,200	4 00 " "	102,372 80
1847....	15,637,700	11,602,200	27,239,900	4 50 " "	122,579 05
1848....	16,637,700	11,878,300	28,516,000	4 50 " "	128,322 00
1849....	17,959,600	12,820,700	30,780,300	5 00 " "	153,901 50
1850....	17,832,700	14,126,900	31,959,600	5 30 " "	169,385 85
1851....	18,490,600	14,288,700	32,779,300	5 30 " "	173,730 29
1852....	20,005,200	13,696,100	33,701,300	5 30 " "	178,616 89
1853....	22,464,900	14,814,400	37,279,300	5 30 " "	197,580 29
1854....	33,598,600	15,301,100	48,928,700	5 60 " "	274,000 72
1855....	36,188,097	20,108,200	56,296,297	6 75 " "	380,000 00
1856....	36,487,116	21,577,400	58,064,516	7 75 " "	450,000 00

VALUATION AND TAXATION.

YEAR.	ASSESSORS' VALUATION.			Rate of Tax.	Am't of Tax.
	Real Estate.	Personal Est.	Total.		
1857....	\$37,799,600	\$29,948,200	\$57,741,800	\$7 40 per \$1,000	\$427,333 72
1858....	36,316,200	19,517,000	55,833,200	8 10 " "	452,248 92
1859....	36,666,600	19,858,600	56,526,200	8 00 " "	452,209 60
1860....	37,089,800	21,042,000	58,131,800	5 60 " "	325,538 08
1861....	36,798,600	20,065,200	56,863,200	5 80 " "	329,807 56
1862....	37,149,000	23,969,300	61,118,300	6 50 " "	397,268 95
1863....	37,701,000	28,714,800	66,415,800	6 80 " "	451,627 44
1864....	38,961,900	41,037,900	79,999,800	7 00 " "	559,998 60
1865....	39,479,500	41,084,800	80,564,300	9 80 " "	789,513 12
1866....	40,250,800	43,198,000	83,448,800	9 40 " "	784,418 72
1867....	45,027,200	40,017,200	85,044,400	10 80 " "	918,479 52
1868*...	49,107,900	43,618,100	92,726,000	12 00 " "	1,112,712 00
1869...	50,909,800	42,179,100	93,088,900	12 20 " "	1,135,684 58
1870....	52,511,800	40,565,100	93,076,900	13 50 " "	1,256,538 15
1871....	64,985,890	39,565,700	104,561,500	13 50 " "	1,411,580 25
1872....	69,926,400	40,160,700	110,087,100	13 50 " "	1,486,175 85
1873....	71,037,500	41,443,900	112,481,400	13 50 " "	1,518,498 90
1874†...	81,040,300	42,642,500	123,682,800	14 50 " "	1,793,400 60
1875....	82,862,900	39,091,800	121,954,700	14 50 " "	1,768,343 15
1876....	84,981,000	36,084,200	121,065,200	14 50 " "	1,755,445 40
1877....	85,789,800	32,065,000	117,874,800	14 50 " "	1,709,184 60
1878....	86,341,100	30,699,400	117,040,500	14 50 " "	1,697,087 25
1879....	86,816,100	28,765,600	115,581,700	14 00 " "	, 18,143 80
1880....	88,012,100	27,908,900	115,921,000	13 50 " "	1,564,933 50
1881....	87,788,000	28,413,800	116,201,800	14 00 " "	1,626,825 20
1882....	88,987,900	30,208,300	119,196,200	14 50 " "	1,728,344 90

*The ninth ward was annexed to the city in 1868. †The tenth ward was annexed to the city in 1874.

VALUATION AND TAXATION (CONTINUED.)

YEAR.	ASSESSOR'S VALUATION.			Rate of Tax.	Am't of Tax.
	Real Estate.	Personal Est.	Total.		
1883....	\$90,143,400	\$31,722,000	\$121,865,400	\$14 50 per \$1,000	\$1,767,048 30
1884....	91,642,100	30,854,400	122,496,500	14 50 " "	1,776,199 25
1885....	92,887,400	31,314,600	124,202,000	14 50 " "	1,800,929 00
1886....	97,975,900	32,281,200	130,257,400	14 00 " "	1,823,603 60
1887....	99,779,580	34,267,680	134,046,260	14 50 " "	1,943,685 27
1888....	100,924,720	35,837,840	136,762,560	15 00 " "	2,051,438 40
1889....	102,850,100	37,627,240	140,477,340	15 00 " "	2,107,160 10
1890 ..	104,684,440	35,932,620	140,617,060	15 00 " "	2,109,255 90
1891....	109,428,720	37,473,120	146,901,840	15 00 " "	2,203,527 60
1892....	114,656,860	40,885,660	155,542,520	15 00 " "	2,333,137 80
1893....	119,001,700	40,810,860	159,812,560	16 00 " "	2,557,000 96
1894....	126,463,800	40,800,400	167,264,200	16 00 " "	2,676,227 20
1895....	129,438,060	40,316,500	169,754,560	16 00 " "	2,716,552 96
1896....	133,296,200	40,936,300	174,232,500	16 50 " "	2,874,836 25
1897....	135,805,460	38,237,020	174,042,480	16 50 " "	2,871,700 92
1898*....	142,430,200	39,127,920	181,558,120	16 50 " "	2,995,708 96
1899....	146,701,900	41,799,880	188,501,780	16 50 " "	3,110,279 37
1900....	149,094,840	43,022,400	192,117,240	16 00 " "	3,073,875 84
1901....	151,533,940	41,267,920	192,801,860	16 00 " "	3,084,829 76
1902....	154,711,860	43,161,140	197,873,000	16 00 " "	3,165,968 00
1903....	157,427,460	43,241,080	200,668,540	16 50 " "	3,311,030 91

* A portion of the Town of Johnston annexed to the City in 1898. (A portion of the Eighth Ward.)

FUNDED DEBT SEPTEMBER 30, 1903.

Bonds due May 1, 1929, for public improvements	\$34,000 00
Bonds due May 1, 1937, for public improvements	640,000 00
Bonds due July 1, 1906, for water works.....	1,590,000 00
Bonds due September 1, 1916, for water works...	483,000 00
Bonds due April 1, 1923, for water works.....	817,000 00
Bonds due June 1, 1926, for water works.....	200,000 00
Bonds due April 1, 1927, for water works.....	250,000 00
Bonds due May 1, 1930, water refunding loan...	2,466,000 00
Bonds due July 1, 1909, for Davis estate.....	75,000 00
Bonds due July 1, 1911, for school loan.....	300,000 00
Bonds due May 1, 1925, for school loan.....	300,000 00
Bonds due April 1, 1927, for school loan.....	500,000 00
Bonds due May 1, 1929, for school loan.....	350,000 00
Bonds due July 1, 1921, for sewer construction..	1,125,000 00
Bonds due March 1, 1922, for sewer construction	500,000 00
Bonds due April 1, 1923, for sewer construction..	500,000 00
Bonds due May 1, 1925, for sewer construction...	800,000 00
Bonds due June 1, 1926, for sewer construction..	500,000 00
Bonds due April 1, 1927, for sewer construction	300,000 00
Bonds due April 1, 1928, for sewer construction	200,000 00
Bonds due May 1, 1929, for sewer construction...	250,000 00
Bonds due May 1, 1930, for sewer construction..	300,000 00
Bonds due May 1, 1931, for sewer construction..	300,000 00
Bonds due March 1, 1922, for public parks.....	500,000 00
Bonds due May 1, 1947, for public parks.....	674,000 00
Bonds due January 1, 1912, for highway loan....	150,000 00
Bonds due May 1, 1924, for highway loan.....	1,200,000 00
Bonds due April 1, 1927, for highway loan.....	500,000 00
Bonds due May 1, 1930, for highway loan.....	300,000 00
Bonds due May 1, 1929, for Weybosset Bridge loan	270,000 00
Bonds due Nov. 1, 1932, for fire and police loan	258,000 00
Bonds due Sept. 1, 1939, Johnston annexation...	166,000 00
Bonds due Oct. 1, 1909, Johnston annexation, school district No. 15, (4 per cent.).....	25,000 00
Bonds due Oct. 1, 1924, Johnston annexation, school district No. 15, (4 per cent.).....	30,000 00
Bonds due Nov. 1, 1927, Johnston annexation, school district No. 1, (4 per cent.).....	17,000 00
Bonds due Feb. 1, 1912, Johnston annexation, (4 per cent.).....	50,000 00
Bonds due Feb. 1, 1917, Johnston annexation (4 per cent.).....	59,000 00
	<hr/> \$17,229,000 00

FLOATING DEBT SEPTEMBER 30, 1903.

Blackstone Park Land Account.....	\$43,000 00
Casino, Roger Williams Park.....	9,199 23
Receiving Tomb, North Burial Ground.....	15,000 00
School Houses and Lots.....	202,500 00
Sewer construction.....	514,000 00
Notes issued to pay State tax in June, 1903.....	155,720 83
Weybosset bridge and river walls.....	50,000 00
Refurnishing Recorder of Deeds Department.....	1,000 00
Chattlet Street Bridge.....	63,000 00
Water Works.....	55,000 00
	<hr/>
	\$1,108,420 06

SINKING FUNDS, SEPTEMBER 30, 1903.

To redeem the loan for public improvements due in 1929.....	\$7,762 66	
To redeem the loan for public improvements due in 1937.....	54,601 39	
*To redeem the water loan due in 1906.....	1,296,255 92	
To redeem the water loan due in 1916.....	116,631 17	
• To redeem the water loan due in 1923.....	67,196 29	
To redeem the water loan due in 1926.....	32,582 16	
To redeem the water loan due in 1927.....	38,551 67	
To redeem the water refunding loan due in 1930	3,383 07	
To redeem the Davis estate loan due in 1909....	46,230 78	
To redeem the school loan due in 1911.....	200,342 03	
To redeem the school loan due in 1925.....	102,438 92	
To redeem the school loan due in 1927.....	152,603 86	
To redeem the school loan due in 1929.....	63,780 37	
To redeem the sewer loan due in 1921.....	385,264 91	
To redeem the sewer loan due in 1922.....	196,817 01	
To redeem the sewer loan due in 1923.....	157,345 91	
To redeem the sewer loan due in 1925.....	257,923 41	
To redeem the sewer loan due in 1926.....	159,904 86	
To redeem the sewer loan due in 1927.....	89,074 23	
To redeem the sewer loan due in 1928	36,461 33	
To redeem the sewer loan due in 1929.....	21,294 11	
To redeem the sewer loan due in 1930.....	18,618 55	
To redeem the sewer loan due in 1931.....	12,412 94	
To redeem the loan in 1922 for the purchase of land for parks.....	192,175 59	
To redeem the park bonds due in 1947.....	37,900 53	
To redeem the highway loan due in 1912.....	13,218 05	
To redeem the highway loan due in 1924.....	450,546 00	
To redeem the highway loan due in 1927.....	157,744 43	
To redeem the highway loan due in 1930.....	19,278 19	
To redeem the Weybosset bridge loan due in 1929.....	48,918 76	
To redeem the Johnston annexation loan due in 1939.....	9,610 99	
To redeem the fire and police loan due in 1932..	5,271 34	
To redeem the Johnston town and school district bonds, assumed on annexation.....	43,557 66	
†Not apportioned.....	31,784 40	\$4,527,482 49

*Includes \$260,507.58 excess of water rents for the year ending September 30, 1903.

†\$16,163.80 of this amount paid since account was closed September 30, 1903.

FINANCIAL CONDITION OF THE CITY, SEPT. 30, 1903.

Total amount of funded debt, Sept. 30,

1903\$17,229,000 00

Total amount of floating debt on same date 1,108,420 06

Total gross debt..... \$18,337,420 06

Total amount of sinking funds..... \$4,527,482 49

Net amount of city debt.... \$13,809,937 57

DECREASE IN THE NET CITY DEBT FOR THE FISCAL YEAR ENDING

SEPTEMBER 30, 1903.

Net amount of city debt, September 30, 1902..... \$13,966,040 23

Net amount of city debt, September 30, 1903..... 13,809,937 57

Decrease in net debt..... \$156,102 36

**MEMBERS OF THE
CITY GOVERNMENT
AND OFFICERS OF THE
CITY OF PROVIDENCE,**

FROM 1832 TO 1904.

The term of office was from June to June until 1873, when the term was extended, to January, and then from January to January.

The asterisk denotes the deceased.

MAYORS.

*SAMUEL W. BRIDGHAM, from June, 1832, to December 31, 1840.

Died in office.

*THOMAS M. BURGESS, from February 2, 1841, to June, 1852.

*AMOS C. BARSTOW, from June, 1852, to June, 1853.

*WALTER R. DANFORTH, from June, 1853 to June, 1854.

*EDWARD P. KNOWLES, from June, 1854, to June, 1855.

*JAMES Y. SMITH, from June, 1855, to June 29, 1857.

*WILLIAM M. RODMAN, from June 29, 1857, to June, 1859.

*JABEZ C. KNIGHT, from June, 1859, to June, 1864.

*THOMAS ARTHUR DOYLE, from June, 1864, to June, 1869; from June, 1870, to January, 1881; and from January, 1884, to June 9, 1886. Died in office.

*GEORGE L. CLARKE, from June, 1869, to June, 1870.

*THOMAS ARTHUR DOYLE. See above.

*WILLIAM S. HAYWARD, from January, 1881, to January, 1884.

*THOMAS ARTHUR DOYLE. See above.

*GILBERT F. ROBBINS, from January, 1887, to January, 1889.

*HENRY R. BARKER, from January, 1889, to January, 1891.

CHARLES SYDNEY SMITH, from January, 1891, to January, 1892.

WILLIAM KNIGHT POTTER, from January, 1892, to January, 1894.

*FRANK FULLER OLNEY, from January, 1894, to January, 1896.

*EDWIN D. McGUINNESS, from January, 1896, to January, 1898.

WILLIAM C. BAKER, from January, 1898, to January, 1901.

D. L. D. GRANGER, from January, 1901, to January, 1903.

AUGUSTUS S. MILLER, from January, 1903. Now in office.

† Acting Mayor from June 9, 1886, to January 3, 1887.

PRESIDENTS OF THE BOARD OF ALDERMEN.

(Office created February 5, 1863.)

*JAMES S. HAM.....	from March, 1863, to June, 1864.
*JOHN D. JONES.....	" June, 1864, " 1868.
*HENRY J. ANGELL.....	" " 1868, " 1869.
GEORGE P. TEW.....	" " 1869, " 1871.
*AMOS W. SNOW.....	" " 1871, " 1873.
*ADDISON Q. FISHER.....	" " 1873, to Jan., 1878.
*WILLIAM S. HAYWARD.....	" Jan., 1878, " 1881.
*ROBERT E. SMITH.....	" " 1881, " 1882.
*HENRY R. BARKER.....	" " 1882, " 1883.
*† GILBERT F. ROBBINS.....	" " 1883, " 1887.
CHARLES F. SAMPSON.....	" " 1887, " 1890.
*ROBERT E. SMITH.....	" " 1890, " 1891.
*EDWARD G. BURBOWS.....	" " 1891, " 1893.
DANIEL R. BALLOU.....	" " 1893, " 1895.
ARTHUR H. WATSON.....	" " 1895, " 1896.
ROBERT B. LITTLE.....	" " 1896, " 1898.
IRA WINSOR	" " 1898, " 1900.
WALTER B. VINCENT.....	" " 1900, " 1902.
JAMES F. FREEMAN.....	" " 1902, " 1903.
ADONIRAM J. CUSHING.....	" " 1903, " 1904.
JAMES F. FREEMAN.....	" " 1904. Now in office.

CITY CLERKS.

*Richard M. Field..	from June 4, 1832, to Dec. 1, 1843.	Died in office.
*Albert Pabodie ...	Dec. 7, 1843, to Jan. 2, 1860.	Died in office.
Samuel W. Brown..	Jan. 5, 1860, to Jan. 6, 1879.	
Henry V. A. Joslin..	Jan. 6, 1879, to June 2, 1890.	Resigned.
William E. Clarke..	June 2, 1890.	Now in office.

PRESIDENTS OF THE COMMON COUNCIL.

*George Baker	from June, 1832, to June, 1834.
*George Curtis	" 1834, " 1837.
*George W. Jackson.....	" 1837, " 1839.
*Thomas B. Fenner.....	" 1839, " 1842.
*Stephen T. Olney.....	" 1842, " 1844.
*William S. Patten.....	" 1844, " 1845.
*James C. Hidden.....	" 1845, " 1847.
*John J. Stimson	" 1847, " 1848.
*Edward S. Williams.....	" 1848, " 1849.

† Acting Mayor from June 9, 1886, to January 3, 1887.

*Christopher C. Potter.....	from June, 1849, to June, 1850.
*Thomas P. Shepard.....	" 1850, " 1851.
*Walter Paine, Jr.....	" 1851. " 1852.
*Wingate Hayes	" 1852, " 1854.
*Thomas A. Doyle.....	" 1854, " 1855.
*Charles T. Robbins.....	" 1855, " 1856.
*Stephen Waterman	" 1856, " 1860.
John N. Francis.....	" 1860, " 1863.
William Binney	" 1863, " 1871.
Nelson W. Aldrich.....	" 1871, " 1873.
*Nicholas Van Slyck.....	" 1873, to Aug. 10, 1874.
Horatio Rogers	Aug. 10, 1874, to Jan., 1875.
Francis Colwell	Jan., 1875, " 1876.
*Abner J. Barnaby.....	" 1876, " 1877.
Charles P. Robinson.....	" 1877, " 1879.
*Henry R. Barker.....	" 1879, " 1880.
George H. Burnham.....	" 1880, " 1881.
J. Carter Brown Woods.....	" 1881, " 1885.
Rathbone Gardner	" 1885, " 1887.
Augustus S. Miller.....	" 1887, " 1888.
Arthur W. Dennis.....	" 1888, " 1890.
Arthur H. Watson.....	" 1890, " 1893.
Clinton D. Sellew.....	" 1893, " 1896.
John E. Kendrick.....	" 1896, " 1898.
*Joseph H. Kendrick.....	" 1898, to Feb. 20, 1900.
	Died in office.
John E. Kendrick.....	March 5, 1900. Now in office

CLERKS OF THE COMMON COUNCIL.

(Clerk of Committees created February 17, 1890, requiring Clerk of Common Council to act as such.)

*Thomas B. Fenner.....	from June 4, 1832, during organization.
*Allen O. Peck.....	" June, 1832, to June, 1834.
*Albert G. Greene.....	" June, 1834, to Feb. 11, 1867. Resigned.
Joshua M. Addeman.....	" Feb. 25, 1867, to Jan. 2, 1882.
Daniel F. Hayden.....	" Jan. 2, 1882. Now in office.

CITY TREASURERS.

*Stephen Tillinghast.	from June, 1832, to June 15, 1840. Resigned.
*Robert Knight	" June 15, 1840, to July 27, 1840. Resigned.
*Benjamin Clifford..	" July 27, 1840, to Nov. 22, 1843. Resigned.
*Stephen Tripp	" Nov. 27, 1843, to Feb. 14, 1849. Died in office.

CHIEFS OF POLICE.

(Office created June, 1866.)

- *Nelson Viall..... from June, 1866, to June, 1867.
 *Albert Sanford June, 1867, to June, 1869.
 *William Knowles.... " June, 1869, to June, 1870.
 *Thomas J. A. Gross. " June, 1870, to Aug. 2, 1871. Died in office.
 John M. Knowles.... " Aug. 14, 1871, to Sept. 13, 1877. Resigned.
 *William H. Ayer.... " Sept. 13, 1877, to May 4, 1879. Died in office.
 Charles H. Hunt..... " May 22, 1879, to Nov. 1, 1880. Resigned.
 *Benjamin H. Child... " Jan., 1881, to Jan. 16, 1896.
 Reuben R. Baker..... " Jan. 16, 1896, to March 9, 1902.
 Frank A. Matthews... " March 9, 1902. Now in office.

CITY SERGEANT.

- *Edward Harwoodfrom June, 1832, to April 10, 1848.
 *James C. Sheridan " 1848, to June, 1861.
 *Edward S. Rhodes..... " 1861 to Dec. 7, 1903.
 Died in office.

CITY MESSENGERS.

(Office created September 1, 1854.)

- *James C. Sheridan..... from Sept. 18, 1854, to June, 1861.
 *Edward S. Rhodes..... " June, 1861, to Dec. 7, 1903.
 Died in office.

(Office abolished December 18, 1903. Powers and duties transferred to City Sergeant.)

OVERSEERS OF THE POOR.

- *Joshua Rathbun..... from June, 1832, to June, 1836.
 *William F. Greene..... " June, 1836, to Oct. 16, 1854. Resigned.
 *Stephen A. Phillips..... " Oct. 16, 1854, to June, 1858.
 *George W. Wightman.... " June, 1858, to Jan., 1890.
 Matthew J. Cummings.... " Jan., 1890. Now in office.

SURVEYORS OF HIGHWAYS.

- *William T. Grinnell..... from June, 1832, to Aug. 27, 1832.
 *Dexter Thurber " June, 1832, to Aug. 27, 1832.
 *Pardon Mason (for west side).... " Aug. 27, 1832, to June, 1833.
 *Warren Batcheller (for east side). " Aug. 27, 1832, to June, 1833.
 *Henry G. Mumford..... " June, 1833, to June, 1856.
 *William Batcheller " June, 1856, to June, 1858.
 *Samuel B. Durfee..... " June, 1858, to June, 1866.
 *Thomas W. Hart..... " June, 1866, to April 10, 1872.

(Office abolished April 10, 1872. Powers and duties transferred to the Highway Commissioners.)

HIGHWAY COMMISSIONERS.

- *Samuel L. Blaisdell. from Feb. 7, 1872, to May 26, 1876. Resigned.
 *Charles Anthony .. " Feb. 7, 1872, to May 24, 1878.
 *Gideon Bradford.... " Feb. 7, 1872, to Nov. 6, 1874. Died in office.
 Lemuel S. Harris... 18 " Jan..75, to Jan.. 1879.
 *Thomas W. Hart.. " Feb. 7, 1877, to Nov. 5, 1880.
 Obadiah Brown " May 24, 1878, to Nov. 5, 1880.
 George E. Thompson " Jan., 1879, to Nov. 5, 1880.
 (Office abolished April 15, 1880. Powers and duties transferred to the Board of Public Works.)

WATER COMMISSIONERS.

(Office created September 20, 1869.)

- *Joseph J. Cooke.... from Sept, 27, 1869, to Nov. 1, 1876.
 *Charles E. Carpenter " Sept. 27, 1869, to Nov. 1, 1876.
 *Moses B. Lockwood. " Sept. 27, 1869, to May 13, 1872. Died in office.
 William Corliss " May 23, 1872, to Nov. 1, 1876.
 *Lodowick Brayton .. " Nov. 1, 1876, to Nov. 1, 1880.
 Nathaniel F. Potter, Jr.. " Nov. 1, 1876, to Nov. 5, 1880.
 *Henry L. Parsons... " Jan. 18, 1877, to Nov. 5, 1880.
 (Office abolished April 15, 1880. Powers and duties transferred to the Board of Public Works.)

BOARD OF PUBLIC WORKS.

(Office created April 15, 1880.)

- *Samuel B. Swan... from Nov. 5, 1880, to March, 1883.
 Obadiah Brown " Nov. 5, 1880, to March, 1882.
 *Charles Anthony.... " March, 1882, to March, 1884.
 Frederick E. Anthony. " March, 1883, to March 24, 1884. Resigned.
 Clinton D. Sellew.... " March, 1884, to Feb. 11, 1889.
 *Charles E. Carpenter. " May 15, 1884, to Feb. 11, 1889.
 Charles H. Hunt..... " Feb. 15, 1886, to Feb. 11, 1889.
 (Office abolished February 11, 1889. Powers and duties transferred to the Commissioner of Public Works.)

COMMISSIONERS OF PUBLIC WORKS.

(Office created February 11, 1889.)

- *John A. Coleman... from Feb. 11, 1889, to March, 1891.
 *Robert E. Smith.... " March, 1891, to July 22, 1903. Died in office.
 Walter F. Slade..... " August 11, 1903. Now in office.

CITY ENGINEERS.

(Office created May 29, 1869.)

*Charles E. Paine.....	from June, 1869, to Feb. 5, 1877.
Samuel M. Gray.....	" Feb. 5, 1877, to May 5, 1890.
J. Herbert Shedd.....	" May 5, 1890, to May 3, 1897.
Otis F. Clapp.....	" May 3, 1897. Now in office.

ASSESSORS OF TAXES.

(Office created March 8, 1866.)

*Henry A. Webb.....	from June, 1866. to June, 1885.
*Christopher T. Keith .	" 1866. " 1881.
*George W. Ham.....	" 1866, to June 6, 1869. Died in office.
*James C. Hidden....	" 1869, " 1883.
*Charles Dudley	" 1881, " 1886.
George P. Tew.....	" 1883, to Feb. 5, 1895.
Elisha H. Rhodes.....	" 1885. Now in office.
Arthur H. Armington.	" 1886. " "
Walter W. Burnham.	from Feb. 5, 1895. " "

COLLECTORS OF TAXES.

*John Hill	from June, 1832, to June, 1837.
*Robert Knight	" June, 1837, to June, 1839.
*James Mumford	" June, 1839, to June, 1859.
*Nehemiah S. Draper.....	" June, 1859, to Oct., 1868.

(Office abolished October, 1868, and duties transferred to the City Treasurer.)

BOARD OF CANVASSERS AND REGISTRATION.

(Office created February 28, 1895, by Chapter 1405 of the Public Laws.)

*Jason P. Stone.....	from March 7, 1895, to March 9, 1898.
Charles E. Smith.....	" March 7, 1895. Now in office.
John T. Blodgett.....	" March 7, 1895, to June 30, 1900. Resigned.
Joseph P. Canning....	" March 9, 1898. Now in office.
*Isaac H. Southwick, Jr.	" Aug. 1, 1900, to December 23, 1902.

Died in office.

Samuel Whiteley.....	" Jan. 5, 1903. Now in office.
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CITY REGISTRARS.

(Office created in July, 1855.)

*Edwin M. Snow.....	from July, 1855, to Dec. 22, 1888. Died in office.
Charles V. Chapin.....	" Dec. 24, 1888. Now in office.

SUPERINTENDENTS OF HEALTH.

(Office created in July, 1856.)

*Edwin M. Snow..... from July 1856, to Jan., 1884.
 Charles V. Chapin..... " Jan., 1884. Now in office.

BOARDS OF FIRE COMMISSIONERS.

(Office created May 21, 1892, under Chapter 1100 of the Public Laws.)

*Stillman White..... from February 27, 1895, to March 3, 1902.
Resigned.
 William H. Luther... " February 27, 1895, to December 19, 1901.
Resigned.
 Dexter Gorton..... " February 27, 1895, to January 4, 1904.
 Benjamin F. Harrington " January 6, 1902, to January 4, 1904.
 Ira Winsor..... " March 3, 1902. Now in office.
 William Andrews..... " January 4, 1904. Now in office.
 James Davis..... " January 4, 1904. Now in office.

CHIEF ENGINEERS OF THE FIRE DEPARTMENT.

(Office created July 11, 1853.)

*Joseph W. Taylor..... from July 11, 1853, to June, 1859.
 *Thomas Aldrich " June, 1859, to June, 1862.
 *Charles H. Dunham.... " June, 1862, to July 10, 1865. Resigned.
 Dexter Gorton " July 10, 1865, to June, 1869.
 *Oliver E. Greene..... " June, 1869, to July 2, 1884. Resigned.
 George A. Steere..... " July 2, 1884. Now in office.

DEPUTY CHIEF ENGINEERS OF THE FIRE DEPARTMENT.

(Office created March 10, 1883.)

George A. Steere..... from March 12, 1883, to July 2, 1884. Resigned.
 Holden O. Hill..... " March 19, 1885. Now in office.

RECORDER OF DEEDS.

(Office created 1866.)

Gustavus A. Williamson..... from June, 1866, to Jan. 17, 1895.
 Edward C. Joyce..... " Jan. 17, 1895. Now in office.

HARBOR MASTERS.

(Office created August 15, 1853.)

*Nathaniel S. Mauran..... from Aug. 15, 1853, to June, 1854.
 *Nathaniel Church " June, 1854, to June, 1858.
 *Daniel Joslin " June, 1858, to Jan., 1884.

Thomas W. Waterman.....	from Jan. 1884, to Jan., 1885.
James T. P. Bucklin.....	" Jan., 1885, to Jan., 1890.
John H. Maguire.....	" Jan., 1890, to Jan., 1891.
William H. Gladding.....	" Jan. 1891, to Jan., 1892.
John H. Maguire.....	" Jan., 1892, to Jan., 1894.
Thomas Gardner.....	" Jan., 1894, to Jan., 1896.
John H. Maguire.....	" Jan., 1896, to Jan., 1897.
James T. P. Bucklin.....	" Jan., 1897. to Jan., 1903.
John H. Maguire.....	" Jan., 1903. Now in office.

SUPERINTENDENTS OF PUBLIC BUILDINGS.

(Office created December 28, 1868.)

*Obadiah Slade	from Jan. 25, 1869, to Oct. 1, 1886.	Died in office.
John H. Cottrell....	" Jan. 3, 1887, to Jan., 1892.	
Albert T. Mansfield...	" Jan., 1892, to 1896.	
Philip B. Durfee.....	" Jan., 1896, to Jan., 1897.	
Albert T. Mansfield...	" Jan., 1897, to Jan., 1902.	
Henry R. Evans.....	" Jan. 6, 1902. Now in office.	

JUDGES OF THE MUNICIPAL COURT.

*Thomas Burgess	from June, 1832, to June, 1853.	
*Francis E. Hoppin.....	" June, 1853, to June 14, 1858.	Resigned.
*Albert G. Greene.....	" June 14, 1858, to April 8, 1857.	
*Amasa S. Westcott....	" April 8, 1867, to July 3, 1884.	
Joseph E. Spink.....	" July 13, 1884. Now in office.	

CLERKS OF THE MUNICIPAL COURT.

*Allen O. Peck.....	from June, 1832, to June, 1834.	
*Albert G. Greene.....	" June, 1834, to July 21, 1857.	
*Samuel W. Peckham...	" July 24, 1857, to Aug. 10, 1857.	
*Levi Salisbury	" Aug. 10, 1857, to June, 1868.	
*George B. Nichols.....	" June, 1868, to July 18, 1884.	
Charles C. Mumford.....	" July 18, 1884, to July 9, 1885.	Resigned.
Clifford A. Harrington..	" July 9, 1885, to May 13, 1889.	Resigned.
Edward Field	" May 13, 1889. Now in office.	

SUPERINTENDENTS OF LIGHTS.

(Office created August 12, 1864, and filled by appointment of a police constable until October 5, 1874, when it was made elective by the City Council.)

*John M. Clarke.....	from Dec. 1, 1864, to March 12, 1867.
Joseph C. Whiting, Jr "	March 12, 1867, to Oct., 1867.

- *Charles M. Smith...from Oct., 1867, to April 14, 1879.
 *Samuel B. Swan.... " April 14, 1879, to Mar. 3, 1890. Died in office.
 *Oliver E. Greene.... " Mar. 10, 1890, to Mar. 30, 1900. Died in office.
 (Office abolished April 25, 1900, and duties transferred to Commissioner of Public Works.)

INSPECTORS OF BUILDINGS.

(Office created April 12, 1878.)

- *Oliver E. Greene.....from April 12, 1878, to January, 1884.
 Spencer B. Hopkins..... " January, 1884. Now in office.

INSPECTOR OF PLUMBING.

(Office created August 4, 1893.)

- Reuben S. Bemis.....from October 23, 1893. Now in office.

FIRE MARSHALS.

(Office created May 27, 1880.)

- *Elias M. Jenckes....from Jan. 20, 1881, to March 19, 1888.
 Ira Winsor..... " March 19, 1888, to Jan. 21, 1904. Resigned.

PUBLIC ADMINISTRATORS.

(Office created June 6, 1876.)

- Daniel Burrowsfrom Feb. 5, 1877, to Feb. 6, 1882.
 Jonathan G. Parkhurst..... " Feb. 16, 1882. Now in office.

JUSTICES OF THE POLICE COURT.

- *Robert Knight, *Charles F. Tillinghast, *Albert G.
 GreeneSelected June, 1832.
 *William R. Staples, *Alpheus Billings..... " " 1833.
 *William R. Staples, *Thomas White..... " " 1834.
 *Robert Knight, *Albert G. Greene, *Henry L. Bowen. " " 1835.
 *Thomas White, *William P. Olney, *George F. Mann. " " 1836.
 *Henry L. Bowen, *Walter S. Burges..... " " 1838.
 *Robert Knight, *Henry L. Bowen, *Walter S. Burges " " 1839.
 *Henry L. Bowen, *Walter S. Burges, *Edward H.
 Hazard " " 1840.

*Henry L. Bowen. *Edward H. Hazard, *Walter Paine, Jr.	Selected June, 1842.
*Henry L. Bowen, *Charles Holden, Jr., *Charles Hart.	" " 1844.
*Henry L. Bowen, *Samuel Brown, *Joseph S. Pitman	" " 1845.
*Samuel W. Peckham, *Henry L. Bowen, *Francis E. Hoppin	" " 1846.
*Samuel W. Peckham, *Francis E. Hoppin, *James M. Clarke	" " 1847.
*Samuel W. Peckham, *Francis E. Hoppin, *Charles Hart	" " 1849.
*Samuel W. Peckham, *Charles Hart.....	" " 1853.
*Henry L. Bowen, *William Knowles.....	" " 1855.
*Henry L. Bowen, *Samuel W. Peckham.....	" " 1857.
*Samuel W. Peckham, Horatio Rogers, Jr.....	" " 1861.
*Samuel W. Peckham, *Lucius C. Ashley.....	" " 1862.
*Lucius C. Ashley, William H. Greene.....	" " 1867.
*Francis A. Daniels, *Stephen Essex.....	" " 1868.
*Stephen Essex, *Elias M. Jenckes.....	" " 1871.
*Elias M. Jenckes, Lorin M. Cook.....	" " 1873.
*Elias M. Jenckes, *Joseph S. G. Cobb.....	" Jan., 1886.
*Joseph S. G. Cobb, Henry J. Dubois.....	" " 1893.
*Joseph S. G. Cobb, Richard E. Lyman.....	" " 1896.
Richard E. Lyman, *Isaac H. Southwick, Jr.....	" April, 1899.
Richard E. Lyman, James A. Pirce.....	" Aug. 2, 1900.
Now in office.	

PARK COMMISSIONERS.

(Office created January 3, 1891.)

*Richard H. Deming..from January 5, 1891, to December 14, 1902.	Died in office.
*George L. Vose..... " January 5, 1891, to January 3, 1895.	Resigned.
Henry B. Winship..... " January 5, 1891, to May 6, 1897.	
*Frank F. Olney..... " Jan. 7, 1895, to Oct. 24, 1903. Died in office.	
*Edwin D. McGuinness " May 6, 1897, to April 21, 1901. Died in office.	
R. H. I. Goodard..... " May 13, 1901. Now in office.	
Fenner H. Peckham.. " January 5, 1903. Now in office.	
William A. Walton... " January 4, 1904. Now in office.	

† Died in office.

POLICE COMMISSIONERS.

[Appointed by the Governor.]

(Office created November 22, 1901.)

- *Frank F. Olney..... from November 26, 1901, to October 24, 1903.
Died in office.
- *Richard H. Deming.... " November 26, 1901, to December 14, 1902.
Died in office.
- William H. Luther... " November 26, 1901. Now in office.
- Gardiner C. Sims..... " December 23, 1903. Now in office.
- Sam H. Bullock..... " November 14, 1903, to January 13, 1904.
- Lewis J. Pierce..... " January 13, 1904. Now in office.

CITY OFFICERS

AND

MEMBERS OF THE CITY GOVERNMENT.

1832-1904

ALPHABETICALLY ARRANGED.

The term of office for officers elected annually, was for the year ensuing the first Monday in June, until June, 1873, when the term then commencing was extended to January, 1875. Subsequently the term of office is for the year ensuing the first Monday in January, except when otherwise specified. In 1887 and 1900, the ward lines were changed, the aldermen and councilmen elected therefrom to hold office commencing from the first Monday in January.

(The asterisk denotes the deceased.)

Adams, Andrew, mayor's clerk, from January 17, 1895, to 1896.

*Adams, Benjamin B., in common council, third ward, 1864 to 1866.

Addeman, Joshua M., clerk of the common council, from February 25, 1867, to January 2, 1882.

*Akerman, Charles, in common council, fifth ward, 1847 to 1848.

Aldrich, Edward S., in common council, second ward, 1890 to 1894.

*Aldrich, Elisha M., in common council, ninth ward, 1868 to 1869.

Aldrich, Elisha S., in common council, first ward, 1877 to 1879.

*Aldrich, Esek, in common council fifth ward, 1843 to 1845.

“ “ city treasurer, from March 11, 1850, to June, 1855.

Aldrich, Nelson W., in common council, fifth ward, 1869 to 1871; sixth ward, from June, 1872, to January, 1875. President from June, 1871 to 1873.

*Aldrich, Thomas, chief of fire department, June, 1859, to June, 1862.

*Allen, John B., in common council, third ward, 1883 to 1885, and from April 1, 1885, to January, 1886. Elected to the common council, first ward, November 2, 1897, died prior to the inauguration, December 19, 1897.

Allen, Marvin E., in common council, seventh ward, 1897, to 1901.

*Allen, Mnason, in common council, sixth ward, 1833 to 1839, and 1841 to November 25, 1843. Died in office.

*Allen, Samuel, in common council, third ward, 1852 to 1855.

- *Ames, Edward C., in common council, third ward, 1875 to 1876.
- *Ames, James B., alderman, fourth ward, 1859 to 1861.
- *Ames, Samuel, in common council, third ward, 1840 to 1842.
- Ames, William, in common council, third ward, from June, 1872, to June 29, 1873. Resigned. Also in 1882.
- *Andrews, David, in common council, fifth ward, 1836 to 1839.
- Andrews, William, in common council, fifth ward, 1898.
- “ “ fire commissioner, from January 4, 1904. Now in office.
- *Andrews, William, Jr., in common council, sixth ward, 1848 to 1849.
- *Angell, Abner H., alderman, seventh ward, from August 6, 1873, to January, 1878.
- *Angell, Daniel, in common council, first ward, 1838 to 1839, and 1855 to 1859.
- Angell, Daniel, Jr., in common council, seventh ward, 1859 to 1861.
- *Angell, Dexter, in common council, first ward, 1833 to 1841.
- *Angell, Henry J., in common council, first ward, 1860 to 1861.
- “ “ alderman, first ward, 1861 to 1863, 1864 to 1869, and 1871 to August 21, 1873. Died in office. President, 1868 to 1869.
- Angell, John W., in common council, fifth ward, 1872 to 1873, 1881 to 1886, and from 1888 to 1901, in fourth ward, 1902 to January, 1903. Commissioner of North Burial Ground from January, 1895 to 1897.
- Anthony, Albert L., in common council, seventh ward, 1893 to 1897.
- *Anthony, Charles, in common council, fifth ward, 1854 to 1855, and from January, 1880, to October 4, 1880. Resigned. Also from November 2, 1880, to February 27, 1882. Resigned.
- “ “ alderman, fifth ward, 1858 to 1860.
- “ “ highway commissioner, from February 7, 1872, to May 24, 1878.
- “ “ member of the board of public works, from March, 1882, to March, 1884.
- Anthony, Frederick E., in common council, fourth ward, 1879 to February 26, 1883, and from 1885 to 1888.
- “ “ member of the board of public works, from March, 1883, to March 24, 1884. Resigned.
- *Anthony, Henry, in common council, second ward, 1836 to 1841, 1848 to 1849, and 1859 to 1862.
- *Anthony, Hezekiah, in common council, fifth ward, 1832 to 1835.
- “ “ alderman, fifth ward, 1835 to 1838.

*Anthony, James G., in common council, fourth ward, 1836 to 1838, and 1849 to 1854.

Anthony, John B., in common council, third ward, 1869 to 1870.

Anthony, John B., alderman, third ward, from May 21, 1875, to January, 1876.

Anthony, Lewis W., in common council, sixth ward, 1871 to 1872.

*Arden, James, in common council, ninth ward, February 19, 1872, to January, 1876.

Armington, Arthur H., assessor of taxes, from June, 1886. Now in office.

Armington, James H., in common council, second ward, 1860 to 1871.

*Armstrong, Henry C., in common council, third ward, 1886 to 1888.

“ “ alderman, first ward, 1888 to 1890.

Armstrong, Thomas, in common council, tenth ward, 1903.

Arnold, Frank S., in common council, ninth ward, 1884.

Arnold, A. Herbert, in common council, eighth ward, 1895, and 1897 to 1899.

“ “ alderman, eighth ward, 1899 to 1901.

“ “ commissioner of North Burial Ground, 1896 to 1901.

*Arnold, Stephen C., in common council, sixth ward, 1877 to 1879.

*Ashley, Lucius C., justice of the police court, June, 1863 to 1867.

*Avery, William B., in common council, first ward, 1883 to 1888.

*Ayer, William H., chief of police, from September 13, 1877, to May 4, 1879. Died in office.

Babbitt, Edward M., in common council, tenth ward, January, 1884, to September 23, 1885. Resigned.

*Babcock, George W., in common council, seventh ward, 1875 to 1877.

Bailey, Samuel H., in common council, seventh ward, 1892.

*Baker, Allen, in common council, first ward, 1846 to 1849.

*Baker, Almon S., in common council, seventh ward, 1857 to 1859.

*Baker, George, in common council, fourth ward, and president from 1832 to 1834.

Baker, Nathan H., in common council, first ward, 1882.

Baker, Reuben R., chief of police, from January 16, 1896, to March 9, 1902.

*Baker, Sterry, in common council, sixth ward, 1832 to 1834.

Baker, William C., Mayor, 1898 to 1901.

Balch, Joseph, in common council, first ward, 1901. Now in office.

*Balch, Joseph, Jr., in common council, second ward, 1851 to 1852.

Ballou, Daniel R., in common council, seventh ward, 1887.

Ballou, Daniel R., alderman, ninth ward, from January 6, 1892, to 1895.
President board of aldermen, from January, 1893 to 1895.

Ballou, David, alderman, first ward, 1870 to 1871.

*Ballou, Frederick M., in common council, seventh ward, 1877 to 1880.

Barden Charles A., in common council, second ward, 1894 to 1896.

*Barker, Henry R., in common council, ninth ward, from June, 1873, to January, 1880. President in 1879.

" " alderman, ninth ward, 1880 to 1883. President in 1882.

" " mayor, from 1889 to 1891.

" " commissioner of sinking funds, 1891 to March 17, 1901. Died in office.

*Barker, Joseph A., in common council, fifth ward, 1862 to 1864.

" " alderman, third ward, 1864 to 1866.

*Barker, William C., in common council, third ward. 1832 to 1836.

" " alderman, third ward, 1836 to 1838.

Barker, William Cyrus, in common council, fifth ward, 1878 to 1880.

*Barnaby, Abner J., in common council, fourth ward, from June, 1866, to January, 1878. President in 1876.

" " alderman, fourth ward, September 4, 1879, to January, 1880.

*Barnaby, Jerothmul B., in common council, seventh ward, from June, 1870, to January, 1879.

*Barney, David W., in common council, third ward, 1863 to 1865.

Barney, Walter H., in common council, sixth ward, 1891 to 1894, and in 1895.

Barr, David J., in common council, eighth ward, 1903.

*Barstow, Amos C., mayor, from June, 1852 to 1853.

" " in common council, fourth ward, 1854 to 1856.

Barstow, George E., in common council, fourth ward, 1890 to 1894.

Bartlett, Charles H., in common council, first ward, 1877 to 1879.

Bartlett, Burrill, in common council, sixth ward, 1865 to 1868.

*Bartlett, Henry S., in common council, third ward, 1857 to 1861.

*Bartlett, Nathaniel P., inspector of steam boilers, 1857 to 1858.

Bassett, Edward D., in common council, ninth ward, 1886.

Batchelder, William W., in common council, eighth ward, 1885 to 1887.

" " alderman, eighth ward, 1887.

" " in common council, seventh ward, 1888 to 1893.

" " commissioner of North Burial Ground, 1894.

- *Batcheller, Warren, surveyor of highways (east side), August 27, 1832, to June, 1833.
- *Batcheller, William, surveyor of highways, from June, 1856, to June, 1858.
- *Bates Varnum J., alderman, second ward, 1852 to 1855.
- Beane, William J., in common council, tenth ward, 1895 to 1898.
- “ “ “ inspector of provisions, 1902 and 1904. Now in office.
- *Beckwith, Amos N., in common council, second ward, 1855 to 1856, 1857 to 1858, and 1871 to 1872.
- *Beckwith, Henry T., in common council, second ward, 1880.
- *Behan, John, in common council, tenth ward, 1876, and in 1878.
- Bemis, Reuben S., inspector of plumbing, from October 23, 1893. Now in office.
- *Bennett, Cornelius W. B., in common council, fifth ward, 1857 to 1859.
- *Billings, Alpheus, justice of the police court, June, 1833 to 1834.
- Binney, William, in common council, second ward, from June, 1857, to January 26, 1874. President from June, 1863, to June, 1871.
- Birmingham, Martin T., in common council, tenth ward, 1901.
- *Bishop, Nathan, superintendent of public schools, July 23, 1839, to May 23, 1851.
- Birby, E. Merle, in common council, seventh ward, 1901. Now in office.
- *Blaisdell Samuel L., highway commissioner, from February 7, 1872, to May 26, 1876. Resigned.
- Blakely, William, in common council, fourth ward, 1894 to 1899.
- Blanchard, Horace K., in common council, eighth ward, 1891 to 1897.
- Blanchard, Irving L., in common council, fourth ward, 1900 to 1902.
- *Blanding, William B., in common council, fourth ward, 1885 to 1888.
- Blodgett, John T., member of the board of canvassers and registration, from March 7, 1895, to June 30, 1900. Resigned.
- Blodgett, Samuel C., in common council, fourth ward, 1851 to 1854.
- *Blodgett, William P., in common council, second ward, 1857 to 1858.
- *Boms, Joseph Carpenter, in common council, sixth ward, 1899 to June 24, 1899. Died in office.
- *Bowen, George W., in common council, first ward, 1836 to 1837.
- *Bowen, Henry L., justice of the police court, June, 1835 to 1836, June, 1838 to 1847, and June, 1855 to 1861.
- *Bowen, William H., alderman, second ward, 1855 to 1866.
- “ “ license commissioner, from July 1, 1875, to May, 1886.
- Boynton, Jesse, in common council, sixth ward, June to July 11, 1870. Resigned.

- *Bradford, Gideon, in common council, ninth ward, June, 1869, to February 7, 1872.
- “ “ highway commissioner, from February 7, 1872, to November 6, 1874. Died in office.
- *Bradford, Henry C., in common council, sixth ward, June, 1873, to January, 1876.
- Bradford, William B., in common council, first ward, 1843 to 1846.
- *Brastow, Billings, alderman, third ward, 1855 to 1859.
- *Brayton, Lodowick, alderman, eighth ward, 1868 to 1870, and 1871 to 1872.
- “ “ water commissioner, from October 26, 1876, to November 5, 1880.
- *Brayton, William W., in common council ninth ward, 1878, 1880, and in 1884.
- Brennan, John M., in common council, tenth ward, 1877 to 1879.
- “ “ alderman, tenth ward, from January 27, 1883 to 1888.
- *Bridgham, Samuel W., mayor, from June, 1832, to December 31, 1840. Died in office.
- *Briggs, Albert, in common council, first ward, 1862 to 1864.
- *Briggs, John W., in common council, fifth ward, 1875 to 1880.
- “ “ alderman, fifth ward, 1880 to 1888.
- “ “ commissioner of North Burial Ground from 1879 to November 18, 1893. Died in office.
- *Brown, Allen J., in common council, first ward, June, 1871, to January, 1875.
- Brown, D. Russell, in common council, fourth ward, 1881 to 1885.
- Brown, H. Martin, in common council, ninth ward, 1890.
- *Brown, Isaac, in common council, second ward, 1832 to 1835.
- *Brown, James, in common council, fifth ward, 1840 to 1841.
- *Brown, John D., in common council, first ward, 1839 to 1842.
- Brown, John T., deputy chief of police, from September 13, 1877, to December 20, 1889. Resigned.
- “ “ superintendent of the Dexter Asylum, December 21, 1889. Now in office.
- *Brown, Joseph F., in common council tenth ward, 1877 to 1880.
- “ “ alderman, in 1882.
- *Brown, Joshua R., in common council, fifth ward, 1862 to 1868, 1871 to 1872.
- Brown, Obadiah, highway commissioner from May 24, 1878, to November 5, 1880.

Brown, Obadiah, member of the board of public works, from November 5, 1880, to March, 1882.

Brown, Robert P., in common council, first ward, 1899.

*Brown, Samuel, justice of the police court, June, 1845, to June, 1846.

Brown, Samuel W., city clerk, from January 5, 1860, to January 6, 1879.

*Brownell, Richmond, in common council, fourth ward, 1845 to 1848.

Brownell, Stephen, in common council, seventh ward, 1856 to 1857.

*Bucklin, James C., in common council, fifth ward. 1839 to 1841, and 1842 to 1843.

Bucklin, James T. P., harbor master, from January, 1885 to 1890, and in 1897, to January, 1903.

“ “ inspector of provisions, 1893 to 1896.

Budlong, John C., in common council, fourth ward, 1903.

“ “ alderman, fourth ward, 1904. Now in office.

*Bullock, Richmond, alderman, third ward, 1842 to 1846.

Bullock, Sam H., in common council, first ward, 1896 to 1899.

“ “ police commissioner, from November 14, 1903, to January 13, 1904.

*Bullock, William P., in common council, second ward, 1841 to 1843.

Burbank, Caleb A., mayor's clerk, from January, 1879, to February, 1884.

Burbank, Robert W., alderman, second ward, 1896 to 1898.

Burdick, James, in common council, third ward, 1892 and 1894, to 1901.

*Burgess, Walter S., justice of the police court, June, 1838, to June, 1842.

*Burgess, Alexander, alderman, first ward, 1869 to 1870.

*Burgess, Frederick, in common council, seventh ward, 1863 to 1864.

“ “ alderman, seventh ward, 1864 to 1866.

“ “ alderman, eighth ward, 1866 to 1868.

“ “ in common council, eighth ward, 1870 to 1871.

*Burgess, Thomas, judge of the municipal court, from June, 1832, to June, 1853.

*Burgess, Thomas M., mayor, from February 2, 1841, to June, 1852.

*Burnett, Charles Jr., in common council, fifth ward, 1847 to 1848.

Burnham, George H., in common council, sixth ward, 1876 to 1881.
President in 1880.

“ “ alderman, sixth ward, January 1, 1881, to January 1, 1885. Resigned. Also from January 5, 1885, to 1888.

“ acting judge of the municipal court, from May 21, 1885, in re cases of the estates of James Knowles, and Martha B. Newton.

Burnham, George H., license commissioner, from August 6, 1889, to April, 1893, and from August, 1893, to November 22, 1901.

Burnham, Walter W., tax assessor from February 5, 1895. Now in office.

*Burr, Edward, in common council, seventh ward, February 15, to June, 1869.

*Burrington, Henry H., in common council, fourth ward, 1864 to 1868.

“ “ alderman, fourth ward, 1868 to 1870.

*Burroughs, John E., gauger, in 1886.

Burrows, Daniel, public administrator, from February 5, 1877, to February 6, 1882. Resigned.

*Burrows, Edward G., in common council, sixth ward, 1887.

“ “ alderman, fifth ward, 1888, to February 7, 1895.
Died in office.

“ “ president of the board of aldermen, 1891, to 1893.

*Burrows, John R., in common council, sixth ward, 1837 to 1838.

*Burrows, Joseph, Jr., in common council, sixth ward, 1844 to 1846.

*Burt, Consider W., in common council, first ward, 1856 to 1857.

Burton, David, in common council, fifth ward, 1886 to 1896.

*Bush, Richard W., in common council, second ward, 1847 to 1855.

*Bushee, Nathaniel C., surveyor of lumber, from February, 1878, to February 28, 1895.

*Butler, James H., in common council, fifth ward, 1877.

Butterworth, James C., in common council third ward, June, 1872, to January, 1875.

*Butts, James E., in common council, sixth ward, 1837 to 1838 and 1840 to 1844.

Cady, David, in common council, sixth ward, 1871 to 1872.

*Cady, Joseph, in common council, second ward, 1832 to 1836.

“ “ alderman, second ward, 1836 to 1842.

*Calder, Albert L., in common council, fourth ward, 1862 to 1870.

Calder, Edwin E., inspector of milk, from March 29, 1877, to January, 1891.

Canning, James B., in common council, fourth ward, 1902. Now in office.

Canning, Joseph P., member of the board of canvassers and registration, from March 9, 1898. Now in office.

*Carnes, Joseph W., mayor's clerk, 1901, to Sept. 17, 1902. Died in office.

- *Carpenter, Albert G., in common council, ninth ward, 1884 to 1887.
- *Carpenter, Charles A., in common council, ninth ward, 1891.
- *Carpenter, Charles E., in common council, fifth ward, 1857 to 1860.
1866 to 1869, and 1878 to 1881.
- “ “ water commissioner from September 27, 1869,
to November, 1876.
- “ “ member of the board of public works. from
May 10, 1884, to February 11, 1889.
- Carpenter, Clarence H., surveyor of lumber, from February 28, 1895.
Now in office.
- *Carpenter, Daniel E., in common council, fifth ward, 1843 to 1855.
- *Carpenter, Earl, in common council, fifth ward, 1841 to 1842.
- *Carpenter, Ebenezer, in common council, fifth ward, 1838 to 1839, and
1841 to 1842.
- *Carpenter, George M., record commissioner, from March 6, 1891, to
July 31, 1896. Died in office.
- *Carpenter, Sturgis P., in common council, third ward, June, 1872, to
January, 1876.
- “ “ alderman, third ward, 1880, to June 15, 1884.
Died in office.
- *Carr, George M., in common council, seventh ward, 1864 to 1865.
- *Carty, John A., in common council, ninth ward, 1883, 1885, and in
1887.
- “ “ in common council, sixth ward, 1888.
- *Case, Ervin T., in common council, eighth ward, 1871 to 1873.
- “ “ “ “ ninth ward, 1879.
- *Case, Philip, in common council, fourth ward, 1849 to 1851, and 1860
to 1864.
- “ “ alderman, fourth ward, 1864 to 1865.
- Casey, John, in common council, tenth ward, 1886 to 1888.
- “ “ alderman, tenth ward, 1888.
- *Cassidy, John, in common council, tenth ward, 1879 to 1881, and in
1882.
- *Chace, George I., alderman, second ward, 1878 to 1880.
- *Chace, Nelson, in common council, first ward, 1859 to 1861.
- *Chace, Zachariah, in common council, third ward, 1869.
- *Chaffee, Daniel K., city marshal, from June, 1848, to June, 1854.
- *Chaffin, Hollis, superintendent of Dexter Asylum, March 25, 1850, to
May 1, 1868.
- Chapin, Charles V., superintendent of health, from January, 1884. Now
in office.

- Chapin, Charles V., city registrar, from December 24, 1888. Now in office.
- *Chapman, Rhodes B., in common council, second ward, 1856 to 1858.
- Chase Franklin A., in common council, eighth ward, 1881 to 1886.
- “ “ alderman, eighth ward, 1886.
- Chase, Philip S., city auditor, from January 17, 1895. Now in office.
- Chase, T. Frederick, city sergeant, from January 4, 1904. Now in office.
- Chevers, Aurion V., deputy city clerk, from April 25, 1878, to January 17, 1903.
- *Child, Benjamin H., chief of police, 1881, to January 16, 1896.
- *Child, William D., inspector of kerosene, from December 2, 1879, to May 18, 1898. Died in office.
- *Church, John, in common council, third ward, 1832 to 1836.
- *Church, Nathaniel, harbor master, from June, 1854 to 1858.
- *Clafin, George L., in common council, first ward, 1870 to 1871, and from 1881 to 1883.
- Clapp, Otis P., city engineer, from May 3, 1897. Now in office.
- *Clark, Henry C., alderman, eighth ward, 1876.
- “ “ in common council, eighth ward, from 1882 to 1885.
- Clarke, Ezekiel W., in common council, second ward, 1890 to 1896.
- *Clarke, George L., mayor, from June, 1869, to June, 1870.
- “ “ alderman, first ward, from September 3, 1873, to January, 1875.
- *Clarke, James M., justice of the police court, June, 1847, to 1849.
- “ “ city solicitor, from June 22, 1853, to August 23, 1854, and from June, 1855, to June, 1863.
- *Clarke, John H., in common council, first ward, 1865 to 1866, and 1867 to 1868.
- *Clarke, Pardon, in common council, fifth ward, 1832 to 1836.
- Clarke, Walter L., deputy city treasurer, from July 1, 1888, to January 7, 1901.
- “ “ city treasurer, 1901. Now in office.
- Clarke, William E., in common council, third ward, 1886 to 1888.
- “ “ “ “ first ward, 1888 to 1890.
- “ “ alderman, first ward, 1890 to May 26, 1890. Resigned.
- “ “ elected city clerk, May 26, 1890. Now in office.
- *Clifford, Benjamin, alderman, third ward, 1836 to 1837.
- “ “ city treasurer, from July 27, 1840, to November 22, 1843. Resigned.
- Cobb, Charles D., city weigher, 1877. Now in office.

*Cobb, Joseph S. G., in common council, sixth ward, 1882 to January 4, 1886. Resigned.

" " police justice, January 4, 1886, to April 10, 1899.
Died in office.

Coffey, Lawrence J., in common council, tenth ward, 1903. Now in office.

*Coggeshall, James H., in common council, second ward, 1860 to 1866.

" " alderman, second ward, 1866 to 1872.

*Cole, George A., inspector of kerosene, from June, 1869, to November 28, 1879. Died in office.

*Coleman, John A., commissioner of public works, from February 11, 1889, to March, 1891.

Colwell, Francis, in common council, fourth ward, 1870 to 1871, and in 1875. President in 1875.

" " city solicitor, from June, 1865, to June, 1866, and from May, 1892. Now in office.

Conneely, William, in common council, ninth ward, from July 12, 1883, to January, 1894.

Cook, Lorin M., justice of police court, from June, 1873, to January, 1886.

*Cook, Stephen, in common council, first ward, 1868 to 1870.

*Cooke, Benoni, in common council, second ward, 1832 to 1837.

Cooke, Henry W., in common council, first ward, 1896 to 1898.

*Cooke, Joseph J., water commissioner, from September 27, 1869, to November 1, 1876.

*Cooke, Joseph S., in common council, third ward, 1832 to 1833.

Cooke, Stephen A., in common council, second ward, 1897 to 1901; in first ward 1901 to 1902.

" " alderman, first ward, 1902. Now in office.

*Cooney, John P., in common council, first ward, 1875, 1876, and in 1878.

Corliss, William, water commissioner, from May 23, 1872, to November 1, 1876.

*Cornell, Stephen, in common council, fourth ward, 1854 to 1856, and 1859 to 1860.

*Cory, Henry A., in common council, fifth ward, from 1863 to 1868, 1869 to 1872, and from April 1, 1874, to January, 1876.

*Cosgrove, John, in common council, tenth ward, 1887.

Cottrell, John H., superintendent of public buildings, 1887 to 1892.

Covell, William H., in common council, tenth ward, 1883, and 1888 to 1894.

" " alderman, tenth ward, 1900. Now in office.

*Cowing, Martin K., in common council, first ward, 1837 to 1839.

- Cram, Henry, in common council, January 4, to January 18, 1886. (Seat declared vacant.) From January 26, 1886, to 1888.
- *Cranston, Barzillai, in common council, fourth ward, from November 19, 1838, to June, 1842.
- *Cranston, James E., alderman, third ward, from July 2, 1884, to January, 1885.
- *Cranston, William B., superintendent of hacks, from November 28, 1864, to June 7, 1875.
- *Crary, Stephen, in common council, seventh ward, from February 28, 1854, to 1855.
- Crawford, Thomas A., in common council, third ward, 1901.
- Cressy, George P., in common council, fourth ward, 1895 to 1897.
- “ “ inspector of kerosene, from May 23, 1898, to 1903.
- “ “ “ “ January 4, 1904. Now in office.
- *Crooker, Josiah F., in common council, first ward, 1844 to 1846.
- Crooker, Josiah W., in common council, first ward, 1879 to 1881.
- *Cross, James M., city auditor, from June 8, 1863, to February 10, 1887. Died in office.
- *Cross, William J., in common council, second ward, 1862 to 1863.
- Crossley, William J., in common council, ninth ward, from February 23, 1876, to January, 1878, and in 1879.
- Cummings, Matthew J., overseer of the poor, January, 1890. Now in office.
- *Curry Samuel G., in common council, fourth ward, 1862 to 1865.
- “ “ alderman, fourth ward, 1865 to 1868.
- *Curtis, George, in common council, second ward, 1833 to 1838. President, from June, 1834, to June, 1837.
- Cushing Adoniram J., in common council, fourth ward, 1899 to 1902.
- “ “ alderman, fourth ward, 1902, to January, 1904.
- “ “ president, 1903.
- Cushman, Eleazer M., superintendent of Providence Reform School, May 8, 1853, to July 1, 1860.
- *Daboll, William V., in common council, ninth ward, 1868 to 1871. and ‘in 1883.
- “ “ alderman, ninth ward, from June, 1871, to 1872, and from June, 1873, to January, 1876.
- *Dailey, Albert, in common council, second ward, 1860 to 1866.
- *Danforth, Walter R., mayor, from June, 1853, to June, 1854.
- *Daniels, Francis A., justice of the police court June, 1868, to 1872.
- *Daniels, George P., in common council, first ward, 1834 to 1835, and 1846 to March 30, 1848. Died in office.

- *Daniels, Peter, in common council first ward, 1832 to 1836.
- Darcy, Edward H., in common council, tenth ward, 1891 to 1895.
- “ “ alderman, tenth ward, 1895, to 1897.
- Darling, Edwin S., in common council, second ward, 1904. Now in office.
- *Darling, George H., in common council, fifth ward, 1888 to 1894.
- Darling, John O., in common council, eighth ward, 1898. Now in office.
- *Darling, William O., in common council, sixth ward, 1852 to 1853.
- *Davis, Edward N., in common council, seventh ward, 1856 to 1857.
- Davis, Henry F., in common council, seventh ward, 1861 to 1863.
- Davis, James, alderman, eighth ward, 1903.
- “ “ fire commissioner, from January 4, 1904. Now in office.
- *Davis, Lewis E., in common council, seventh ward, 1891 to 1896, 1897 to 1900.
- “ “ alderman, seventh ward, from January, 1900, to February 22, 1903. Died in office.
- *Davis, Thomas, 2d, in common council, first ward, 1848 to 1851.
- Daw, Harry, in common council, eighth ward, 1904. Now in office.
- *Day, Daniel, in common council, second ward, 1856 to 1857.
- *Day, Daniel E., in common council, sixth ward, 1875 to 1880.
- “ “ commissioner of sinking funds, from January, 1875, to May 15, 1893. Died in office.
- *Deming, Richard H., in common council, seventh ward, 1889 to 1891.
- “ “ alderman, seventh ward, 1891.
- “ “ park commissioner, from January 5, 1891, to December 14, 1902. Died in office.
- “ “ police commissioner, from November 26, 1902, to December 14, 1902. Died in office.
- Deming, Thomas D., in common council, first ward, 1883 to 1885.
- *Denison, Russell A., in common council, eighth ward, 1875.
- Dennis, Arthur W., in common council, seventh ward, 1887.
- “ “ “ “ ninth ward, 1888 to 1890. President 1888 to 1890.
- “ “ alderman, ninth ward, 1890.
- Devenish, John J., in common council, tenth ward, from September 23, 1885, to January, 1888.
- “ “ “ “ third ward, from January to July 2, 1888. Resigned.
- Devlin, John I., third ward, 1901, and January, 1903. Now in office.
- *Dexter, Arthur F., in common council, third ward, 1876 to 1879, and January, 1885, to March 9, 1885. Resigned.
- Dexter, Lewis, in common council, third ward, 1870 to 1872.

- Dimond, Francis M., in common council, ninth ward, 1880.
- Donnelly, John J., inspector of provisions, 1903.
- Dorchester, Hoffman S., in common council ninth ward, 1885 to 1887.
- “ “ “ sixth ward, 1889 to 1891.
- Dorney, Thomas J., mayor's clerk, 1896 to 1898.
- *Dorrance, James R., in common council, third ward, 1857 to 1859.
- Douglas, Samuel T., in common council, first ward, 1887.
- “ “ “ “ second ward, 1888 to 1890.
- “ “ alderman, second ward, 1890 to 1892.
- Douglas, William W., in common council, second ward, June, 1873, to January, 1876.
- Doyle, Charles E., inspector of steam boilers, from May 6, 1901. Now in office.
- *Doyle, John T., inspector of steam boilers, 1896 to May 3, 1901. Died in office.
- *Doyle, Thomas A., in common council, fifth ward, 1852 to 1855, and 1856 to 1857. President, 1854 to 1855.
- “ “ mayor from June, 1864, to June, 1869; from June, 1870, to January, 1881, and from January, 1884, to June 9, 1886. Died in office.
- *Draper, John L., in common council, fourth ward, 1869 to 1870.
- *Draper, Nehemiah S., collector of taxes, from June, 1859, to October, 1861.
- Dubois, Henry J., justice of the police court, January, 1893, to January 16, 1896.
- *Dudley, Charles, in common council, sixth ward, 1864 to 1866.
- “ “ assessor of taxes, June, 1881, to June, 1886.
- Duffy, Charles Gavan, in common council, tenth ward, 1894.
- *Dunham, Charles H., chief of fire department, June, 1862, to July 10, 1865. Resigned.
- Dunn, John C., in common council, third ward, 1902. Now in office.
- Dunn, Patrick A., in common council, tenth ward, 1888 to 1890.
- *Dunwell, John, alderman, fifth ward, 1833 to 1835.
- Durfee, Joseph, Jr., in common council, first ward, 1850 to 1851.
- Durfee, Philip B., in common council first ward, 1888 to 1896.
- “ “ superintendent of public buildings, 1896.
- *Durfee, Samuel B., in common council sixth ward, 1849 to 1851, 1868 to 1870.
- “ “ surveyor of highways, from June, 1858, to June, 1866.

- *Durfee, Sanford, in common council, first ward, 1864 to 1865.
- *Dutcher, Oliver F., in common council, fifth ward, 1869 to 1870.
- Dwyer, Timothy F., in common council, first ward, from January 28, 1898, to 1901.
- Dyer, Elisha, alderman, first ward, from June 7, 1890, to January, 1892.
- *Earle, George B., in common council, third ward, 1866 to 1868.
 " " alderman, third ward, from June, 1868, to May 21, 1875.
- *Earle, James M., in common council, second ward, 1841 to 1843.
- *Earle, William, in common council, third ward, 1847 to 1852.
 " " alderman, third ward, 1859 to 1862.
- Eaton, Amasa M., in common council, tenth ward, from May 7, 1874, to January, 1875.
 " " alderman, tenth ward, 1875.
- Ecceston, Alvin H., in common council, sixth ward, 1900.
- *Eddy, Cyrus T., in common council, eighth ward, 1868 to 1869.
- *Eddy, Henry B., in common council, fifth ward, 1880.
- *Eddy, John, in common council, seventh ward, 1857 to 1859.
- *Eddy, John S., in common council, fifth ward, 1837 to 1839.
- *Eddy, Lyman H., in common council, eighth ward, 1880 to 1882.
- Egan, Patrick, deputy chief of police, from December 20, 1889. Now in office.
- Eldridge, Martin L., superintendent of Providence Reform School, from July 15, 1876, to July 1, 1880.
- *Elliott, George C., in common council, sixth ward, 1863 to 1865.
- *Emerson, George A., deputy city treasurer, from January 18, 1886, to August 6, 1888. Died in office.
- *Essex, Stephen, justice of the police court, from June, 1868, to June, 1873.
- Evans, Adolphus J., in common council, fourth ward, 1904. Now in office.
- *Everett, Amherst, in common council, third ward, 1833 to 1839.
 " " alderman, third ward, 1843 to 1845.
- *Fairbanks, Willard W., in common council, third ward, 1840 to 1846.
- Fanning, Joseph H., in common council, seventh ward, 1882 to 1887.
 " " alderman seventh ward, 1887.
- *Farmer, Edward G., gauger, from January, 1855, to January, 1886, and in 1887 to 1893.
- Farnsworth, John P., in common council, ninth ward, 1898 to 1900.
- Farrington, Preston M., in common council, fourth ward, 1859 to 1861.

- *Fenner, Nicholas A., in common council, eighth ward, 1875 to 1877.
" " alderman, eighth ward, 1878 to 1880.
- *Fenner, Thomas B., clerk of common council, June 4, 1832, at organization.
" " in common council, fourth ward, 1832 to 1836, and 1838 to 1842. President from 1839 to 1842.
" " alderman, second ward, 1842 to 1845.
- *Fenner, William H., in common council, sixth ward, 1862 to 1864, and from fourth ward, June, 1869, to January, 1875.
- *Field, Daniel, in common council, fifth ward, 1833 to 1836.
- Field, Edward, City Auditor. *pro tem.*, from February 14, 1887, to March 24, 1887.
" " record commissioner, from March 6, 1891. Now in office.
" " clerk of the municipal court, from May 13, 1889. Now in office.
- *Field, Greene Burroughs, in common council, seventh ward, 1862 to 1864.
- *Field, Richard M., city clerk, from June 4, 1832, to December 1, 1843.
Died in office.
- *Fisher, Addison Q., in common council, second ward, 1871 to 1873.
" " alderman, second ward, June, 1873, to January, 1878, and in 1887. President, June, 1873, to January, 1878.
- *Fisher, Cyrus, in common council, second ward, 1831 to 1835.
- *Fisk, Alfred W., in common council, seventh ward, 1866 to 1870.
- Fletcher, Henry, in common council, eighth ward, 1898 to 1900; in seventh ward, 1901. Now in office.
- *Fletcher, Thomas, in common council, first ward, 1839 to 1841, and 1844.
- Flynn, Thomas J., in common council, third ward, 1904. Now in office.
- *Foster, William, in common council, fifth ward, 1840.
- Foyer, James B., in common council, tenth ward, 1881 to 1884.
- Francis, John N., in common council, sixth ward, 1854 to 1863. President from June, 1860, to June, 1863.
- Franklin, Henry B., in common council, fourth ward, 1878 to 1880.
- Freeman, James F., in common council, sixth ward, 1894 to 1897.
" " alderman, sixth ward, 1897. Now in office.
" " President, 1902 and 1904. Now in office.
- Fuller, Myron H., alderman, sixth ward, 1891 to 1895, and in 1896.
- Gallagher, Edward, in common council, third ward, 1892 to 1894.
- Gallup, Albert S., in common council, ninth ward, 1868 to 1869.
- *Gardiner, Marinus W., city treasurer, from June, 1855, to December 1, 1862.

- Gardiner, Marinus W. (Jr.), in common council, fifth ward, 1896 to 1901;
in fourth ward, 1901.
- *Gardiner, Peleg W., in common council, fifth ward, 1839 to 1840.
- *Gardner, Henry W., in common council, eighth ward, 1869 to 1870.
" " alderman, eighth ward, 1870 to 1871.
- Gardner, Rathbone, in common council, second ward, from 1884 to 1887,
and in 1896. President from 1885 to 1887.
- Gardner, Thomas, harbor master, 1894 to 1896.
- Gee, Samuel, secretary of police commission, from November 27, 1901.
Now in office.
- George, Daniel F., mayor's clerk, 1898 to 1900.
- George, Edward T., in common council, eighth ward, 1885.
- George, James A., mayor's clerk, 1900.
- Gibbons, John, in common council, tenth ward, 1889 to 1892.
- *Gibbs, Charles R., mayor's clerk, from July 9, 1885, to January 4, 1892.
- Giblin, Augustine, in common council, third ward, 1893 to 1895, and
1902 to 1904.
- *Gillmore, Joseph F., in common council, sixth ward, 1841 to 1842, and
1848 to 1851.
" " alderman, sixth ward, 1852 to 1858.
- Gilrain, James M., in common council, tenth ward, 1902 to 1904.
- Gilmartin, John J., in common council, third ward, 1890 to 1892.
" " alderman, third ward, 1893.
- Gladding, Benjamin C., in common council, third ward, 1863 to 1869.
- *Gladding, Samuel, in common council, fourth ward, 1845 to 1848.
- Gladding, William H., harbor master, 1891.
" " inspector of provisions, from 1896 to 1898.
- Goddard, William, in common council, second ward, 1852 to 1855.
- Goddard, R. H. I., park commissioner, from May 13, 1901. Now in office.
- *Godfrey, Christopher C., in common council, third ward, 1836.
- Goff, James C., in common council, third ward, 1877 to 1882.
- Golrick, Mark A., in common council, ninth ward, 1888.
" " inspector of provisions, from 1898 to 1902.
- *Goodhue, Daniel T., in common council, fourth ward, 1838 to 1841, and
1842 to 1845.
- Gorham, Howard B., in common council ninth ward, 1904. Now in
office.
- *Gorham, Jabez, in common council, first ward, 1842 to 1844.
- Gorman, Charles E., in common council, tenth ward, from May 7, 1874,
to January, 1875.
" " alderman, tenth ward, 1879 to 1882, and 1890.

Gorton, Dexter, chief of fire department, July 10, 1865, to June, 1869.

" " in common council, fifth ward, 1886 to 1888.

" " fire commissioner, from February 27, 1895, to January 4, 1904.

*Gould, John, in common council, sixth ward, 1833 to 1834, 1836 to 1837, and 1838 to 1840.

Grady Daniel F., in common council tenth ward, 1900 to January, 1903, and from January, 1904. Now in office.

Granger, D. L. D., city treasurer from January 13, 1890, to January 7, 1901.

" " mayor, 1901, to January 5, 1903.

Grant, George H., in common council, sixth ward, 1902. Now in office.

*Grant, Henry T., alderman, sixth ward, 1862 to 1864.

*Grant, Joseph, in common council sixth ward, 1834 to 1836.

Gray, Abraham A., in common council, second ward, 1896 to 1898.

" " alderman, second ward, 1898. Now in office.

Gray, Samuel M., city engineer, from February 5, 1877, to May 5, 1890.

*Greeley, Michael, in common council, third ward, 1888 to 1890.

*Green, Arnold, in common council, third ward, from March 5, 1877, to January, 1880, and in 1882.

*Greene, Albert G., justice of the police court, June, 1832 to 1833, 1835 to 1836.

" " clerk of the municipal court, from June, 1834, to July 2, 1857. Resigned.

" " clerk of the common council, from June, 1834 to February 11, 1867. Resigned.

" " judge of the municipal court, from June 14, 1858, to April 8, 1867. Resigned.

*Greene, Allen, in common council, first ward, 1863 to 1864, 1865 to 1866, and from June, 1873, to January, 1875, and 1880.

Greene, David C., in common council, first ward, 1848.

*Greene, Duty, in common council, sixth ward, 1836 and 1842 to 1847.

*Greene, Edward A., in common council second ward, 1855 to 1857.

*Greene, Godfrey, in common council, fifth ward, 1864 to 1866.

*Greene, Henry R., alderman, fifth ward, 1832.

*Greene, Luke, in common council, fourth ward, 1854 to 1857.

*Greene, Oliver E., inspector of kerosene, from March 26, 1867, to June, 1869.

" " chief of fire department, from June, 1869, to July 2, 1884. Resigned.

" " inspector of buildings, from April 12, 1878, to April 10, 1883.

- *Greene, Oliver E., sealer of weights and measures, from May 5, 1884, to March 10, 1890. Resigned.
- “ “ superintendent of lights, from March 10, 1890, to March 30, 1900. Died in office.
- *Greene, Rufus, in common council, fourth ward, 1855 to 1857.
- *Greene, Russell, in common council, fifth ward, 1846 to 1847.
- *Greene, Samuel S., superintendent of public schools, June 6, 1851, to January 29, 1855.
- *Greene, Simon H., in common council, fourth ward, 1835 to 1839.
- *Greene, Thomas C., in common council, third ward, 1861.
- *Greene, William B., alderman, eighth ward, 1880 to 1883.
- *Greene, William F., overseer of the poor, June, 1836, to October 16, 1854. Resigned.
- Greene, William H., justice of the police court, June, 1867, to 1868.
- Grimwood, Henry A., in common council, eighth ward, 1897 to 1901.
- “ “ in common council, ninth ward from April 7, 1902. Now in office.
- “ “ commissioner of the North Burial Ground, 1901. Now in office.
- Grinnell, Joseph D., in common council, fifth ward, from March 21, 1895 to 1901.
- *Grinnell, William T., Sr., surveyor of highways, June, 1832, to August 27, 1832.
- “ “ alderman, fourth ward, 1832 to 1835.
- *Grinnell, William T., in common council, second ward, 1849 to 1855.
- *Gross, Thomas J. A., chief of police, June, 1870, to August 2, 1871. Died in office.
- *Grundy, Ellis, in common council, first ward, 1866.
- *Guild, Reuben A., in common council, first ward, 1857 to 1860, 1861 to 1864 and 1872.
- *Gurney, Austin, in common council, third ward, 1838 to 1841.
- *Hale, William M., in common council, third ward, 1862 to 1864.
- *Hall, George W., city treasurer, February 19, 1849, to March 11, 1850. Resigned.
- “ “ in common council, third ward, 1850.
- “ “ alderman, third ward, 1851 to 1855.
- Hall, Henry J., in common council, tenth ward, from January to September 4, 1882. Resigned.
- Hall, Jeremiah H., in common council, tenth ward, 1898. Now in office.
- *Ham, George W., assessor of taxes, from June, 1866, to June 6, 1869. Died in office.

- *Ham, James S., alderman, fifth ward, 1848 to 1849, and 1861 to 1864.
President from March 23, 1863, to June, 1864.
" " in common council, fifth ward, 1860.
- *Ham William, in common council, fifth ward, 1833 to 1837.
- *Hamill, Hugh, in common council, tenth ward, from May 7, 1874, to January, 1877, and from 1879 to 1882.
- *Hamlin, John H., in common council, second ward, 1848 to 1851.
- *Harding, Richard, in common council, third ward, 1837.
- *Harrington, Alfred A., in common council, eighth ward, 1868 to 1870, and from 1880 to 1885.
Harrington, Benjamin F., fire commissioner, from January 6, 1902, to January 4, 1904.
- *Harrington, Charles N., in common council, fourth ward, 1861 to 1862, and 1866.
- *Harrington, Clifford A., mayor's clerk, from February 4, 1884, to July 9, 1885. Resigned.
" " clerk of the municipal court, from July 9, 1885, to May 13, 1889. Resigned.
- *Harrington, Josiah B., in common council, sixth ward, 1864.
- *Harris, Charles E., in common council, eighth ward, 1880 to 1882, and 1887 to 1891.
" " alderman, eighth ward, 1891 to 1896.
- Harris Lemuel S., in common council, seventh ward, June, 1865, to January, 1875.
" " highway commissioner, from January, 1875, to January, 1879.
- *Harris, William A., in common council, first ward, 1883.
- *Hart, Charles, justice of the police court, June, 1844, to 1845, and June, 1853, to 1855.
- *Hart, Thomas W., city marshal, from June, 1859, to June, 1866.
" " surveyor of highways, from June, 1866, to April 10, 1872.
" " highway commissioner, from February 5, 1877, to November 5, 1880.
- *Hartshorn, Isaac, in common council, fifth ward, 1845.
- *Hartshorn, Joseph C., in common council, seventh ward, 1856 to 1859.
- *Hartwell, Mortimer H., in common council, seventh ward, 1888 to 1891.
- *Harwood, Edward, city sergeant, from June, 1832, to April 10, 1848.
- *Hatch, Watson D., in common council, sixth ward, 1846 to 1849.
- *Hawes, Arnold C., in common council, fifth ward, 1856.

- Hayden, Daniel F., clerk of the common council, from January 2, 1882.
Now in office.
- " " clerk of committees, from February 11, 1890. Now
in office.
- *Hayes, Wingate, in common council, from January 2, 1851, to 1855.
President from 1852 to 1855.
- *Hayward, George W., in common council, sixth ward, 1863.
- Hayward, Richard, in common council, ninth ward, 1871.
- *Hayward, William S., in common council, sixth ward, from June, 1872,
to November 9, 1876.
- " " alderman, sixth ward, November 9, 1876, to
January, 1881. President from January,
1878, to 1881.
- " " mayor, 1881 to 1884.
- " " commissioner of sinking funds, from May 15,
1893, to November 5, 1900. Died in office.
- *Hazard, Edward H., justice of the police court, June, 1840 to 1844.
- *Hazard, Henry S., in common council, fifth ward, 1842.
- Heffernan, Timothy, in common council, tenth ward, 1880 to 1882.
- *Henry, Stephen P., in common council, eighth ward, 1866.
- *Hickie, William A., in common council, sixth ward, 1891 to 1893. and
1894.
- Hicks, William H., inspector of steam boilers. 1891 to 1896.
- *Hidden, Henry A., alderman, fifth ward, 1860.
- *Hidden, James C., in common council, fifth ward, 1843 to 1847, and
1868 to 1869. President from 1845 to 1847.
- " " assessor of taxes, from June, 1869, to June, 1883.
- *Higgins, John H., in common council, sixth ward, 1901. Now in office.
- *Hill, George, in common council, sixth ward, 1834 to 1836.
- *Hill, Hiram, surveyor general of lumber, February, 1832, to February,
1847.
- " " alderman, third ward, 1847 to 1851.
- *Hill, John, collector of taxes, from June, 1832, to June, 1837.
- *Hill, Thomas J., in common council, fifth ward, 1848 to 1852, 1855 to
1856, and 1878.
- *Hilton, William D., in common council, seventh ward, 1875.
- Hinckley, Frank L., in common council, first ward, 1898 to 1901.
- *Hodges, Bradford, in common council, fifth ward, 1841 to 1843.
- " " alderman, fifth ward, 1846 to 1848.
- Holbrook, Charles W., in common council, first ward, 1853 to 1855.
- *Holden, Charles, alderman, second ward, 1832 to 1836.

- *Holden, Charles, Jr., justice of the police court, June, 1844, to June, 1845.
- *Holden, Isaac H., in common council, sixth ward, 1852 to 1853.
- *Holden, Thomas R., in common council, first ward, 1832 to 1835.
" " alderman, first ward, 1837 to 1841.
- *Holden, Zelotes W., in common council, sixth ward, 1849 to 1851.
" " alderman, seventh ward 1854 to 1860.
- *Holmes, Henry L., register of transfers, from October 2, 1876, to April 8, 1893. Died in office. Office abolished.
- Hooper, Prentiss O., city gauger, 1894.
- Hopkins, Edmund S., in common council, eighth ward, 1878 to 1881.
- *Hopkins, Israel M., in common council, eighth ward, June, 1872, to January, 1875.
- *Hopkins, James N., in common council, sixth ward, 1851 to 1852, and 1853 to 1855.
- Hopkins, Spencer B., inspector of buildings, from January, 1884. Now in office.
- *Hopkins, William H., in common council, fifth ward, 1856 to 1864.
" " alderman, fifth ward, 1866 to 1871.
- *Hoppin, Francis E., justice of the police court, June, 1846 to 1853.
" " judge of the municipal court, from June, 1863, to June 14, 1858. Resigned.
- *Hoppin, George H., in common council, fourth ward, 1847.
- *Hoppin, Thomas C., alderman, fourth ward, 1835 to 1848.
- *Hoppin, William W., in common council, fourth ward, 1838 to 1842.
" " alderman, fourth ward, 1848 to 1852.
- Howard, Elisha H., in common council, first ward, 1896 to 1898.
- *Howland, Henry A., in common council, fifth ward, 1849.
- *Howland, John A., in common council, third ward, 1861.
- *Hudson, Horatio G., in common council, sixth ward, 1837 to 1838, and 1839 to 1841.
- *Hudson, William H., city marshal, from June, 1854, to June, 1859.
- *Hughes, John L., in common council, fourth ward, 1834 to 1842.
- Hull, Charles F., in common council, first ward, 1879 to 1882.
- *Hunt, Benjamin, Jr., in common council, eighth ward, 1870 to 1872, and from June, 1873, to January, 1877.
- Hunt, Charles H., chief of police, from May 24, 1879, to November 1, 1880. Resigned.
" " member of board of public works, from February 15, 1886, to February 11, 1889.
- *Hunt, David, in common council, seventh ward, 1866 to 1868.

- *Hunt, George, in common council, first ward, 1851 to 1854, and 1861 to 1863.
- Hurley, John E., in common council, first ward, 1900.
- *Hutchins, Henry S., in common council, fifth ward, 1861.
- *Hutchins, Shubael, in common council, fourth ward, 1842 to 1845.
- *Jackson, George W., in common council, second ward, 1835 to 1841.
President 1837 to 1839.
- *Jackson, Samuel, 2d, in common council, fifth ward, 1832.
- *James, Samuel, in common council, fifth ward, 1842 to 1844.
" " alderman, fifth ward, 1849 to 1855.
- *Jastram, George B., city auditor, from June, 1850, to June, 1854.
- *Jenckes, Elias M., justice of the police court, from June, 1872, to October 29, 1892. Died in office.
" " fire marshal, from January, 1881, to March 19, 1888.
" " coroner, from July, 1887, to October 29, 1892. Died in office.
- *Jenks, George H., in common council, third ward, 1866 to 1869.
- *Jillson, Essek A., surveyor of lumber, from February, 1870, to February, 1873, and from February, 1874, to February, 1878.
- Johnson, Clinton H., in common council, eighth ward, 1901, to January, 1903.
- *Johnson, Freeborn, in common council, fifth ward, 1868 to 1869, and June, 1873, to January, 1875.
- *Johnson, George A., in common council, ninth ward, from June, 1872, to January, 1875.
- *Johnson, Oliver, in common council, fourth ward, 1841 to 1842, 1852 to 1855, and 1856.
- *Johnson, William S., in common council, seventh ward, 1875.
- Jones, Augustine, in common council, second ward, 1897 to 1899.
- *Jones, John D., in common council, third ward, 1841 to 1848, and 1859 to 1862.
" " alderman, third ward, 1862 to 1868. President 1866 to 1868.
- Jones, Louis B., sealer of weights and measures and superintendent of street signs and numbers, from January 11, 1900. Now in office.
- *Joslin, Daniel, harbor master, from June, 1858, to January, 1884.
- Joslin, Henry V. A., mayor's clerk, from April 29, 1874, to January 6, 1879. Resigned.
" " city clerk, from January 6, 1879, to June 2, 1890. Resigned.

- *Joslin, John H., in common council, seventh ward, 1869 to 1873.
 " " alderman, seventh ward, June to July 24, 1873. Died in office.
- *Joslin, Leonard F., in common council, eighth ward, 1878 to 1880.
- Joyce, Edward C., mayor's clerk, from January 1, 1894, to January 17, 1895.
- " " recorder of deeds, from January 17, 1895. Now in office.
- Kavanagh, Luke, in common council, tenth ward, 1896 to 1901.
- Keep, Frederick E., in common council, sixth ward, 1870 to 1872.
- *Keith, Christopher T., assessor of taxes, from June, 1866, to June, 1881.
- *Kelleher, Daniel F., in common council, second ward, 1896.
- Kelly James H. in common council, third ward, 1890 to 1894, and 1896 to 1899.
- *Kendrick, John, in common council, sixth ward, 1865 to 1868.
- Kendrick, John E., in common council, ninth ward, 1890 to 1898. and 1900. Now in office.
- " " president, 1896 to 1898, and from March 5, 1900. Now in office.
- *Kendrick, Joseph H., in common council, fourth ward, 1888 to 1897, and 1898 to February 20, 1900.
- " " president, 1898 to February 20, 1900. Died in office.
- Kenney, William F., in common council, third ward, 1885.
- Kenyon, John T., in common council, eighth ward, 1901.
- King, Patrick, in common council, tenth ward, 1888 to 1890.
- Kingley, John C., in common council, second ward, 1903.
- Kinsley, Benjamin E., in common council, seventh ward, 1882 to 1887.
- " " alderman, ninth ward, 1888 to 1890.
- *Kinyon, John H., in common council, seventh ward, 1861.
- *Knight, Benjamin B., alderman, sixth ward, 1868 to 1871.
- *Knight, Jabez C., in common council, fourth ward, 1849 to 1852.
- " " alderman, sixth ward, 1854 to 1858.
- " " mayor, from June, 1859, to June, 1864.
- " " license commissioner, from July 1, 1875, to June, 1880, and from June, 1883, to May, 1886.
- *Knight, Robert, justice of the police court, June, 1832 to 1833, June, 1835 to 1836, June, 1839 to 1840.
- *Knight, Robert, collector of taxes, from June, 1837, to June, 1839.
- " " city treasurer, from June 15 to July 27, 1840. Resigned.
- " " alderman, sixth ward, 1842 to 1852.

Knight, William F., in common council, seventh ward, 1891 to 1895.

*Knowles, Edward P., in common council, seventh ward, 1835 to 1841.

" " alderman, first ward, 1841 to 1854.

" " mayor, from June, 1854, to June, 1855.

Knowles, John M., chief of police, from August 14, 1871, to September 13, 1877. Resigned.

" " superintendent of the Dexter Asylum, from September 8, 1877, to December 21, 1889. Resigned.

*Knowles, John P., city solicitor, from June, 1866, to September, 1867. Resigned.

*Knowles, William, justice of the police court, June, 1855, to June, 1857.

" " chief of police, from June, 1839, to June, 1870.

*Knowlton, Erastus F., in common council, sixth ward, 1833 to 1834, 1836 to 1837, and 1838 to 1840.

Lake, Beverly S., in common council, sixth ward, 1899 to 1901; in fifth ward, 1901. Now in office.

Lansing, George D., in common council, second ward, 1888 to 1892.

" " alderman, second ward, 1893 to 1896.

*Lapham, Benjamin N., city solicitor, from June, 1863, to June, 1865.

" " in common council, third ward, 1869.

" " alderman, third ward, 1876.

*Larcher, John, in common council, second ward, 1837 to 1839.

*Larned, Russell M., in common council, third ward, 1865.

*Leach, Daniel, superintendent of public schools, from February 15, 1855, to September, 1884. Resigned.

Leonard, Thomas H., in common council, sixth ward, 1897 to 1901; in fifth ward, 1901. Now in office.

*Lester, James C., in common council, sixth ward, January, 1884, to August 20, 1884. Died in office.

*Lester, John Erastus, in common council, sixth ward, August 1, 1870, to 1871.

*Lester, John K., in common council, sixth ward, 1851 to 1852, and 1853 to 1859.

" " alderman, sixth ward, 1859 to 1862, 1864 to 1865, and 1866 to 1868.

*Lewis, Dexter B., in common council, first ward, 1851 to 1853. Second ward, 1875.

*Lewis, Palmer, alderman, seventh ward, 1860.

Lincoln, Eugene H., coroner, 1893. Now in office.

*Lincoln, Thomas, in common council, sixth ward, 1855 to 1862.

- *Lippitt, Peleg W., in common council, ninth ward, 1881.
- Little, Robert B., in common council, seventh ward, 1891.
- “ “ alderman, seventh ward, 1892 to 1898.
- “ “ president, 1896 to 1898.
- Littlefield, Frederick, in common council, eighth ward, 1902. Now in office.
- *Lockwood, Moses B., in common council, third ward, 1845 to 1847.
- “ “ water commissioner, from September 27, 1869, to May 13, 1872. Died in office.
- Lougee, Stephen N., in common council, ninth ward, 1895 to 1897.
- Lovett, James B., in common council, third ward, 1899, to January, 1903.
- Lowe, Edwin, in common council, eighth ward, 1885 to 1888.
- “ “ alderman, eighth ward, 1888 to 1891, and 1897 to 1899.
- Luther, William H., license commissioner, from August 6, 1889, to April 1890.
- “ “ fire commissioner, from February 27, 1895, to December 19, 1901. Resigned.
- “ “ police commissioner, from November 26, 1901. Now in office.
- Lyman, Richard E., police justice, from January 16, 1896. Now in office.
- *Lyon, Merrick, in common council, third ward, 1855.
- *Macomber, Harrison G., in common council, tenth ward, 1878.
- Magoon, Louie R., city auditor, *pro tem.*, from August 20, 1894, to January 17, 1895.
- Maguire, John H., harbor master, 1890, and 1892 to 1894, and 1896, and in 1903. Now in office.
- Makepeace, Charles R., in common council, second ward, 1904. Now in office.
- *Mallett, Edward J., in common council, third ward, 1839.
- *Man, George F., justice of the police court, June, 1836 to 1838.
- *Manchester, Albert H., alderman, fifth ward, from June, 1873, to January 17, 1877.
- *Manchester, Cyrus B., in common council, fifth ward, 1850 to 1852, and 1853.
- “ “ alderman, fifth ward, 1855 to 1858.
- *Manchester, Israel G., in common council, sixth ward, 1838 to 1839 1840 to 1841, and 1842 to 1844.
- *Manchester, Jacob, in common council, fifth ward, 1848 to 1852.
- *Manchester, Robert, surveyor general of lumber, from February 8, 1847, to February, 1870.

- Manchester, Silas H., in common council, seventh ward, 1886 to 1888.
 " " " " ninth ward, 1888 to 1890.
- Manchester, Thomas Wilbur, city gauger, 1893.
- Mansfield, Albert T., superintendent of public buildings, 1892 to 1896,
 and 1897 to 1902.
- *Marcy, Fred I., in common council, sixth ward, 1879 to 1887.
- *Martin, Daniel, in common council, fifth ward, 1846 to 1849.
- Martin, George E., in common council, second ward, 1879 to 1882.
 " " alderman, 1882 to 1887.
- Martin, Jacob H., in common council, fourth ward, 1848 to 1851.
- *Martin, Joseph, in common council, fourth ward, 1849.
 " " register of transfers, July 12, 1858, to June, 1860.
- *Martin, Stephen, in common council, first ward, 1835.
- *Martin, Sylvanus G., alderman, first ward, 1835 to 1837.
- *Mason, Amasa, in common council, fifth ward, 1835 to 1837.
- *Mason, Nathan, in common council, third ward, 1837 to 1840.
- *Mason, Pardon, surveyor of highways, for west side, from August 27,
 1832, to June, 1833.
- *Mason, Stephen G., in common council, third ward, from 1852 to 1858.
- Massie, John G., deputy city treasurer, from November 9, 1868, to Jan-
 uary 18, 1886. Resigned.
- " " commissioner of sinking funds, from October 7, 1889.
 Now in office.
- " " in common council, ninth ward, from January, 1900,
 to January, 1904.
- *Mathewson, Allen C., in common council, third ward, 1846 to 1848.
- Mathewson, Charles H., license commissioner, from August, 1898, to
 November 22, 1901.
- *Mathewson, Joseph B., in common council, fourth ward, 1861 to 1862,
 and in 1880.
- *Mathewson, Nathan F., in common council, fourth ward, 1857 to 1859.
- *Mathewson, Parley M., in common council, first ward, 1847 to 1851, and
 second ward, from November 20, 1871, to January, 1875.
- *Mathewson, Rollin, in common council, third ward, 1849 to 1851.
- Matthews Frank A., chief of police from March 9, 1902. Now in office.
- *Mauran, Frank, in common council, second ward, 1863 to 1871.
- *Mauran, Nathaniel S., harbor master, from August 15, 1853, to June,
 1854.
- *McAuslan, John, in common council, ninth ward, 1882.
 " " " " seventh ward, 1888.
- McCarthy, Dennis F., alderman, third ward, 1894 to 1902. January,
 1903. Now in office.

- McCarthy, Dennis J., license commissioner, from April, 1890, to April, 1891, and April, 1892, to May 24, 1893.
- McCarthy, Patrick J., in common council, sixth ward, 1890, 1892, 1894.
- McCaughin, Alexander A., in common council, tenth ward, 1889 to 1892.
- McGann, James H., in common council, tenth ward, 1892 to 1894.
- “ “ alderman, tenth ward, 1897 to 1899.
- McGovern, James J., in common council, third ward, 1904. Now in office.
- *McGuinness, Edwin D., alderman, third ward, September 5, 1889 to 1893.
- “ “ mayor, 1896 to 1898.
- “ “ park commissioner, from May, 1897, to April 21, 1901. Died in office.
- McGuinness, John B., in common council, third ward, 1900; in second ward, 1901 to January, 1903.
- *McGuy, Richard, in common council, third ward, 1892 to 1894.
- McHale, Michael, in common council, third ward, 1890 to 1892.
- McKenzie, Andrew, superintendent of hacks, from March, 1876, to August 16, 1887.
- *McKnight, Charles G., in common council, fourth ward, 1855 to 1856, and 1861 to 1862.
- *McNally, James, in common council, fourth ward, 1878 to 1888.
- McOsker, Fergus J., in common council, tenth ward, 1881, and 1886 to 1888.
- “ “ alderman, third ward, January, 1888, to August 5, 1889. Resigned.
- “ “ license commissioner, from August 6, 1889, to April, 1890.
- *McWilliams, John, in common council, ninth ward, 1882 to June 21, 1883.
- “ “ alderman, from June 21, 1883 to 1885.
- *Merriam, John P., in common council, seventh ward, 1858.
- *Messer, Asa, alderman, sixth ward, 1832 to 1834.
- Messinger, Lyman B., in common council, eighth ward, 1894 to 1896.
- Metcalf, Alfred, in common council, first ward, 1863 to 1866, and 1867 to 1872.
- “ “ alderman, first ward, 1875 to January, 1878, and from 1880 to 1883.
- *Metcalf, Jesse, in common council, first ward, 1832 to 1835.
- Metcalf, Jesse H., in common council, third ward, 1888 to 1892, and 1896.
- *Metcalf, Joel, in common council, first ward, 1845 to 1847.
- *Metcalf, Joseph G., in common council, first ward, 1841 to 1844.
- *Millen, William, in common council, fourth ward, 1890 to 1896.

- Miller, Augustus S., in common council, first ward, 1885 to 1887.
 " " " " ninth ward, 1887. President,
 1887.
 " " mayor, 1903. Now in office.
- *Miller, Frederick, in common council, first ward, 1855 to 1866.
 " " " " second ward, 1876 to 1878.
- Miller, Jeremiah W., in common council, sixth ward, 1901. Now in office.
- *Miller, William, in common council, sixth ward, 1838.
- *Miller, William H., in common council, ninth ward, 1880 to 1882.
- Millett, Thomas A., in common council, third ward, 1805 to 1866, and from January 1875 to 1888.
- *Miner Francis W., in common council, ninth ward, 1886.
- Miner, Francis W., Jr., in common council sixth ward, 1896 to 1899.
- Molloy, Timothy E., in common council, tenth ward, 1897 to 1900; in third ward, 1901.
- Monaghan, James C., in common council, tenth ward, January, 1884. to September 23, 1885. Resigned.
- *Monroe, Jacob F., in common council, seventh ward, 1860 to 1863.
- *Montgomery, Edwin, in common council, ninth ward, 1883 to 1886.
- Moore, J. William, in common council, seventh ward, 1895 to 1901; in fifth ward, 1901. Now in office.
- Moran, James, city gauger, 1895. Now in office.
- Morgan, William H., in common council, ninth ward, 1897 to 1900.
- Morris, John, in common council, tenth ward, January, 1875, to January, 1878, 1879 to 1881, and from 1882 to 1884.
- *Moulton, Ephraim B., in common council, sixth ward, from October 2, 1884 to 1888.
- *Mowry, Charles C., in common council, second ward, 1844 to 1848.
- *Mowry, Elisha C., in common council, first ward, June, 1871, to January, 1877.
 " " alderman, first ward, 1878 to 1880.
- Mumford, Charles C., clerk of municipal court, from July 18, 1884, to July 9, 1885. Resigned.
- *Mumford, Henry G., surveyor of highways, from June, 1833, to June, 1856.
 " " city marshal, from June, 1833 to June, 1845.
- *Mumford, James, collector of taxes, from June, 1839, to June, 1859.
- *Mumford, James H., in common council, third ward, 1848 to 1852.
- *Munroe, James H., inspector of steam boilers, from June, 1871, to January, 1891.

Murphy, Timothy Y., in common council, third ward, 1895.

*Murray, James T., in common council, seventh ward, June, 1871, to January, 1875.

*Newell, Stanford, alderman, first ward, 1833 to 1835.

*Nichols, Charles A., in common council, first ward, June, 1873, to January, 1875.

Nichols, Charles C., alderman, first ward, 1896 to 1898.

*Nichols, George E., clerk of the municipal court, from June, 1868, to July 18, 1884.

Nichols, William J., in common council, third ward, from August, 1888, to 1890.

Nicholson, Samuel M., in common council, first ward, 1902 to January, 1904.

*Nicholson, William T., in common council, first ward, 1882.

“ “ alderman, first ward, 1883 to 1885.

Nixon, Thomas, license commissioner, from August, 1893, to August, 1898.

*Nisbet, William D., city auditor, from March 24, 1887, to August 20, 1894. Died in office.

Nolan, James J., in common council, tenth ward, May 7, 1874, to January, 1876.

Norcross, George H., superintendent of hacks, from January 14, 1878, to February 2, 1902.

*Noyes, John L., in common council, third ward, 1856 to 1857.

*Oakes, Charles B., superintendent of hacks, from June 7, 1875, to March, 1876.

O'Brien, Christopher W., mayor's clerk, from November 24, 1902. Now in office.

O'Connell, Daniel J., in common council, third ward, 1894 to 1900.

*Olds, Franklin, sealer of weights and measures, from June, 1872, to April 17, 1884. Died in office.

*Olney, Frank F., in common council, first ward, 1890 to 1892.

“ “ alderman, first ward, 1892 to 1894.

“ “ mayor, 1894 to 1896.

“ “ park commissioner, from January, 1895, to October 24, 1903. Died in office.

“ “ police commissioner, from November 26, 1901, to October 24, 1903. Died in office.

*Olney, Stephen T., in common council, first ward, 1837 to 1838, and 1841 to 1844. President from 1842 to 1844.

“ “ city auditor, from August 9, 1847, to June, 1850.

- *Olney, William, in common council, sixth ward, 1832.
- *Olney, William P., justice of the police court, June, 1836 to 1838.
- O'Reilly, Dennis, in common council, tenth ward, from September 23, 1885, to January, 1886.
- *Ormsbee, John H., alderman, third ward, 1832 to 1836.
- Otis, William N., in common council, seventh ward, 1898.
- *Owen, Ezekiel, in common council, second ward, 1858 to 1860.
- *Pabodie, Albert, city clerk, from December 7, 1843, to January 2, 1860.
Died in office.
- *Pabodie, Benjamin G., in common council, first ward, 1851 to 1854.
- *Pabodie, William, in common council, sixth ward, 1834 to 1836, and 1844 to 1848.
- *Padelford, Seth, in common council, fifth ward, 1837 to 1841, and second ward, 1851.
- *Paine, Charles E., city engineer, from June, 1869, to February 5, 1877.
- Paine, Charles Edward, license commissioner, from April 1890, to April, 1892, and from April, 1893, to May 24, 1893, and from August, 1893, to August, 1898.
- *Paine, Daniel, alderman, fourth ward, 1862 to 1864.
- *Paine, John J., city auditor, from 1854, to June, 1863.
- *Paine, Walter, Jr., justice of the police court, June, 1842, to 1844.
- “ “ in common council, fourth ward, 1850 to 1853, 1857 to 1858, and 1865 to 1866. President, 1851.
- “ “ alderman, fourth ward, 1858.
- Paine, William W., in common council, fourth ward, June, 1870, to January, 1876.
- “ “ in common council, second ward, 1880.
- *Palmer, Gideon, superintendent of Dexter Asylum, August 2, 1828, to March 25, 1850.
- *Parish, Jeremiah S., in common council, second ward, 1878 to 1880.
- Parker, Gilbert R., in common council, eighth ward, 1900.
- “ “ alderman, eighth ward, 1901, to January 5, 1903, and from January, 1904. Now in office.
- Parkhurst, C. Frank, in common council, second ward, 1892 to 1896.
- *Parkhurst, Charles H., city solicitor, from 1868 to August, 1874.
- Parkhurst, Jonathan G., in common council, fifth ward, 1864 to 1868.
- “ “ in common council, seventh ward, 1870.
- “ “ public administrator, from February 16, 1882. Now in office.
- “ “ fence viewer, 1887. Now in office.

- Parks, George W., in common council, first ward, 1901. Now in office.
 " " commissioner of sinking funds, from March 28, 1901,
 to January 4, 1904.
- Parsons, G. Richmond, in common Council, first ward, 1898. Now in
 office.
- *Parsons, Henry L., in common council, second ward, March 3, 1873, to
 January 18, 1877.
- " " water commissioner, from January 18, 1877, to
 November 5, 1880.
- *Patten, William S., in common council, second ward, 1842 to 1848.
 President, 1844.
- *Payne, Abraham, in common council, second ward, 1852 to 1855.
- *Payson, Thomas E., superintendent of the Dexter Asylum, from May,
 1868, to August 24, 1877. Died in office.
- *Payton, George W., in common council, sixth ward, 1862 to 1864.
- *Peabody, Fitz Herbert, in common council, third ward, 1880 to 1888.
- Pearce, Edward D., commissioner of sinking funds, from February 6,
 1901. Now in office.
- *Pearson, Samuel, in common council, second ward, 1832.
- *Peck, Allen O., clerk of the municipal court, from June, 1832, to June,
 1834.
- " " clerk of the common council, June, 1832, to June, 1834.
- *Peck, George B., in common council, first ward, 1844 to 1846.
- Peck, Leander R., in common council, ninth ward, 1889 to 1893.
- Peckham, Fenner H., park commissioner from January 5, 1903. Now
 in office.
- *Peckham, Joseph C., city treasurer, from December 2, 1862, to August
 20, 1868. Died in office.
- *Peckham, Samuel W., justice of the police court, June, 1846, to 1855;
 June, 1857 to 1867.
- " " alderman, third ward, 1845.
- " " clerk of the municipal court, from July 24 to
 August 10, 1857. Resigned.
- " " alderman, second ward, 1880 to 1882.
- Pegram, John C., in common council, second ward, February 4, 1874, to
 January, 1876.
- † " " acting judge of the municipal court, from March 30,
 to April 23, 1889, and from December 18, 1901,
 to January 27, 1902.
- *Peirce, Charles H., in common council, seventh ward, 1862 to 1864.
- " " " " eighth ward, 1867.

† Appointed by the Mayor.

- Perkins, Burmah E., in common council, ninth ward, 1895, to March 8, 1902. Resigned.
- “ “ “ alderman, ninth ward, from April, 1902. Now in office.
- Perkins, Charles H., in common council, eighth ward, 1866 to 1867, and 1871.
- Perkins, George E., inspector of milk, January, 1891, to July 1, 1895. Resigned. And from August 31, 1898, to August 31, 1899.
- *Perkins, Stillman, in common council, eighth ward, 1866 to 1868.
- *Perrin, Daniel, in common council, eighth ward, 1882 to 1885, and from 1886 to 1889.
- Persons, Benjamin W., in common council, third ward, 1868 to 1869, 1870 to 1872.
- “ “ alderman, third ward, 1877 to 1879.
- Peterson, George P., in common council, second ward, 1898. Now in office.
- Pettis, George H., in common council, ninth ward, June, 1872, to January, 1876.
- “ “ sealer of weights and measures and superintendent of street signs and numbers, from March 10, 1890, to January 14, 1897.
- *Phillips, Charles F., in common council, fourth ward, 1868 to 1869, and from June, 1871 to January, 1875.
- Phillips, George R., in common council, fourth ward, 1876 to 1877, and from 1880 to 1888.
- Phillips, Gilbert A., in common council, seventh ward, 1893 to 1897.
- *Phillips, John F., in common council, sixth ward, 1835.
- “ “ alderman, sixth ward, 1839 to 1842.
- *Phillips, Stephen A., overseer of the poor, from October 16, 1854, to June, 1858.
- *Pierce, Elisha W., in common council, seventh ward, 1880 to 1882.
- Pierce, George L., in common council, fifth ward, 1886 to 1888.
- “ “ “ “ fourth ward, 1888 to 1895.
- “ “ alderman, fourth ward, 1895 to 1898.
- “ “ commissioner of North Burial Ground, 1895. Now in office.
- Pierce, James Lewis, in common council, second ward, 1876 to 1880.
- *Pierce, John B., alderman, seventh ward, 1861, to April, 1864. Resigned.
- Pierce, Lewis J., in common council, seventh ward, from January, 1900, to March 2, 1903. Resigned.

- Pierce, Lewis J., alderman, seventh ward, from April 16, 1903, to January 14, 1904. Resigned.
- “ “ police commissioner, from January 14, 1904. Now in office.
- *Pike, Asa, in common council, third ward, 1832.
- *Pike, Charles F., in common council, fifth ward, 1855.
- Pirce, James A., justice of the police court, from August 2, 1900. Now in office.
- *Pitman, Joseph S., justice of the police court, June, 1845 to 1846.
- *Place, Raymond G., in common council, eighth ward, 1867 to 1870, from June, 1871, to January, 1875, and from 1876 to 1880.
- *Pomroy Gorham P., in common council, fifth ward, June, 1872, to March 23, 1874. Resigned.
- *Potter, Alfred, in common council, first ward, 1856 to 1860, and 1872.
- *Potter, Alfred S., in common council, sixth ward, 1880 to 1887.
- Potter, Charles A., inspector of milk, from August 29, 1895. to August 31, 1898.
- *Potter, Charles B., in common council, ninth ward, 1887.
- “ “ “ “ sixth ward, 1888 to 1890. and 1891.
- *Potter, Christopher C., in common council, sixth ward, 1846 to 1851. President, 1849.
- Potter, James A., Jr., in common council, seventh ward, from April 16, 1903. Now in office.
- *Potter, Jabez J., city marshal, from June, 1845, to June. 1848.
- *Potter, Nathaniel F., in common council, sixth ward, 1844 to 1846.
- Potter, Nathaniel F., Jr., in common council, sixth ward, 1870 to 1873.
- “ “ alderman, sixth ward, from June, 1873, to October 6, 1876.
- “ “ water commissioner, November 1, 1876, to November 5, 1880.
- *Potter, Phineas, in common council, fifth ward, 1837.
- “ “ alderman, fifth ward, 1838 to 1846.
- *Potter, Roger Williams, in common council, third ward, 1830 to 1837.
- Potter, William Knight, mayor, 1892 to 1894.
- Potter, William R., in common council, fourth ward, from April 9, 1900, to 1901.
- Potter, William Y., in common council, ninth ward, 1871 to 1873, and from 1875 to 1878.
- *Pratt, Chester, in common council, fourth ward, 1848.
- *Pratt, William H., in common council, seventh ward, 1859 to 1861. and 1864.

*Prentice, John, in common council, fourth ward, 1860.

Presbrey, Allen A., in common council, fourth ward, 1897 to 1899, 1902.
Now in office.

Presbrey, Walter A., in common council, seventh ward, 1901. Now in office.

Provan, James, in common council, tenth ward, 1877.

Rafferty, John T., in common council, third ward, 1902 to January, 1904.

Randall, James, in common council, first ward, 1884 to 1888.

" " " " " fourth ward, 1888 to 1890, 1896 to 1898.

*Rathbone, George S., alderman, fourth ward, 1852 to 1858.

*Rathbun, Joshua, overseer of the poor, from June, 1832, to June, 1836.

*Rathbun, Thomas R., alderman, seventh ward, April 6, 1864, to June, 1864.

Rawson, Henry G. H., in common council, fourth ward, 1899. Now in office.

*Raynsford, Edmund W., alderman, tenth ward, from May 7, 1874, to January, 1875, in 1876, and in 1878, also from January 1 to January 5, 1883. Died in office.

Read, Spencer P., in common council, eighth ward, 1888 to 1894.

Remington, Horace, alderman, seventh ward, 1898 to 1900.

*Remington, William B., in common council, sixth ward, 1865 to 1868.

Remlinger, John L. in common council, sixth ward, 1891 to 1894, 1895 to 1897.

Reynolds, William K., in common council, sixth ward, 1887.

" " " " " fifth ward, 1888 to March 7, 1895. Resigned.

" " " alderman, fifth ward, from March 21, 1895. Now in office.

" " " commissioner of the North Burial Ground, 1897. Now in office.

*Rhodes, Edward S., in common council, fifth ward, 1855.

" " " city sergeant, from June, 1861, to December 7, 1903. Died in office.

" " " city messenger, from June, 1861, to December 7, 1903. Died in office.

Rhodes, Elisha H., assessor of taxes, from June, 1885. Now in office.

*Rhodes, James T., in common council, third ward, 1844.

*Rice, Archibald B., in common council, sixth ward, 1859 to 1863, 1866 to 1867, and from June, 1873, to January, 1877.

*Rice, Fitz James, in common council, sixth ward, 1868 to 1870.

- Richards, Henry F., in common council, fifth ward, from April 6, 1882, to January, 1886.
- Richards, Herbert A., alderman, eighth ward, 1896.
- *Rickard, George A., in common council, ninth ward, 1878.
- Rickard, William W., in common council, fifth ward. 1872 to January, 1877.
- *Rider, William B., in common council, fifth ward, November 7, 1854, to June, 1856, and from 1859 to 1862.
- *Robbins, Charles T., in common council, first ward, 1855 to 1856; sixth ward, 1864 to 1865. President, 1855.
- “ “ alderman, sixth ward, 1865.
- *Robbins, Gilbert F., in common council, seventh ward, 1879 to 1882.
- “ “ alderman, seventh ward, from 1882 to 1887. President, 1883 to 1887.
- “ “ mayor, 1887 to 1889.
- *Roberts, William L., superintendent of hacks, August 16, 1877, to January 14, 1878.
- Robinson, Charles P., in common council, 1876 to 1879. President, 1877 to 1879.
- *Rockwell, Elisha H., in common council, seventh ward, 1889 to 1891.
- *Rodman, William M., in common council, fifth ward, 1852.
- “ “ mayor, from June 29, 1857 to 1859.
- *Rogers, Charles D., in common council, first ward, 1885 to 1887.
- “ “ alderman, first ward, 1887; second ward, 1888 to 1890.
- Rogers, Horatio, justice of the police court, June, 1861 to 1862.
- “ “ in common council, third ward, 1866 to 1868, and from February 8, 1873, to January, 1875. President. August 10, 1874, to January, 1875. Record Commissioner, from March 6, 1891. Now in office.
- *Rogers, John S., sanitary inspector, from July 23, 1883, to February 14, 1895. Died in office.
- Root, Henry T., in common council, ninth ward, 1872.
- “ “ alderman, ninth ward, 1872 to 1873, and from 1885 to 1887.
- “ “ “ seventh ward, 1888 to 1891.
- Root, Robert C., in common council, seventh ward, 1900; in sixth ward, 1901. Now in office.
- *Ross, Thomas B., in common council, third ward, 1883 to 1885.
- “ “ alderman, third ward, 1885 to 1888.
- Rounds, John M., in common council, second ward, 1881 to 1892.
- “ “ alderman, second ward, 1892 to 1893.

*Rounds, Thomas M., in common council, fourth ward, 1867 to 1869, and in 1876; in common council, sixth ward, 1877 to 1882, and from January 13, 1886, to 1888.

Ryan, Timothy E., in common council, tenth ward, 1892 to 1897.

*Salisbury, Levi, clerk of the municipal court, from August 10, 1857, to June, 1868.

*Salisbury, Stephen S., in common council, third ward, 1855 to 1859, and 1862 to 1865.

Sampson, Charles F., in common council, fourth ward, 1875 to 1880.

" " alderman, fourth ward, from 1880 to 1890. President, 1887 to 1890.

*Sanford, Albert, chief of police, from June, 1867, to June, 1869.

San Souci, Emery J., in common council, eighth ward, 1901. Now in office.

San Souci, Joseph O., in common council, tenth ward, 1894 to 1896.

*Saunders, Arnold, in common council, sixth ward, 1853.

Sawin, Eugene M., in common council, sixth ward, 1897 to 1899.

*Sayles, Willard, city solicitor, from January 29, 1855 to June, 1855.

Scott, Walter O., inspector of milk, from August 31, 1890. Now in office.

*Seagrave, Josiah, Jr., in common council, first ward, 1846.

*Seekell, Thomas, in common council, sixth ward, 1832.

Sellew, Clinton D., in common council, third ward, June, 1871, to February 10, 1877. Resigned.

" " secretary of the water commissioners and of the board of public works, from May 30, 1872, to February 11, 1889.

" " member of the board of public works, from March, 1884, to February 11, 1889.

" " secretary of the commissioner of public works, from February 11, 1889, to March, 1891. Resigned.

" " in common council, first ward, January, 1892 to 1896.

" " president of common council, 1893 to 1896.

*Sharpe, Lucian, alderman, second ward, 1872.

*Shattuck, William H., in common council, ninth ward, 1876 to 1882.

*Shaw, Allen, in common council, fifth ward, 1877.

Shaw, James, Jr., in common council, third ward, 1868 to 1870.

Sheahan, Dennis H., in common council, third ward, 1888 to 1890, 1894, and 1897 to 1901.

" " alderman, third ward, 1902.

Shedd, J. Herbert, city engineer, from May 5, 1890, to May 3, 1897.

*Shepard, Thomas P., in common council, second ward. 1848 to 1851. President, 1850.

- *Sheridan, James C., city sergeant, from June, 1848 to 1861.
- Sherman, George R., sealer of weights and measures and superintendent of street signs and numbers, from January 14, 1897, to January 11, 1900.
- Short, Hiram A., in common council, tenth ward, 1875.
- *Simmons, Eben, in common council, fifth ward, 1862 to 1864.
- *Simmons, Henry M., in common council, third ward, 1855 to 1857.
- Sims, Gardiner C., police commissioner, from December 23, 1903. Now in office.
- Sisson, Charles, in common council, second ward, 1896. Now in office.
- *Sisson, Isaac C., in common council, first ward, 1860 to 1863, 1864 to 1865, and from June, 1866 to 1867. Died in office.
- *Slade, George H., in common council, ninth ward, 1881 to 1883.
- *Slade, Obadiah, in common council, seventh ward, 1863 to January, 1869.
 " " superintendent of public buildings, from January 25, 1869, to October 1, 1886. Died in office.
- Slade, Walter F., secretary of the commissioner of public works, from March, 1891, to Aug. 11, 1903.
 " " commissioner of public works, from August 11, 1903. Now in office.
- *Slocum, Ziba O., alderman, ninth ward, 1891 to January 6, 1892.
- Small, Walter H., superintendent of schools, from July 1, 1902. Now in office.
- Smith, Albert W., in common council, first ward, 1887.
- *Smith, Amos D., in common council, fourth ward, 1842 to 1847.
- Smith, Charles E., member of the board of canvassers and registration, from March 7, 1895. Now in office.
- *Smith, Charles M., superintendent of lights, from October 1, 1867, to April 14, 1870.
- Smith, Charles Sydney, in common council, sixth ward, 1868 to 1871, and 1872.
 " " " in common council, seventh ward, 1888.
 " " " mayor, 1891.
 " " " commissioner of sinking funds, from January 7, 1901. Now in office.
- Smith, Edwin A., in common council, eighth ward, from June, 1872, to January, 1877.
 " " alderman, eighth ward, 1877.
- *Smith, Ferdinand, in common council, seventh ward, 1890 to 1882.
- *Smith, Francis M., in common council, ninth ward, 1868 to 1871.
- Smith, Franklin A., Jr., license commissioner, from August, 1898, to November 22, 1901.

- *Smith, Henry S., in common council, tenth ward, 1876.
 " " alderman, tenth ward, 1877.
- *Smith, James Y., mayor, from June, 1855, to June 29, 1857.
- Smith, John P., in common council, eighth ward, 1896 to 1898.
- *Smith, Robert E., in common council, seventh ward, 1877.
 " " alderman, seventh ward, 1878 to 1882.
 " " " ninth ward, 1887.
 " " " sixth ward, 1888 to 1891.
 " " president in 1881 and 1890.
 " " commissioner of public works, from March, 1891,
 to July 22, 1903. Died in office.
- Smith, Roswell C., in common council, fifth ward, 1899. Now in office.
- Smith, Samuel N., in common council, first ward, 1883 to 1885.
- *Smith, William A., in common council, first ward, 1833.
- *Snow, Amos W., alderman, seventh ward, 1866 to 1873. President, 1871 to 1873. *
- *Snow, Edwin M., in common council, second ward, 1855.
 " " city registrar, from July, 1855, to December 22, 1888.
 Died in office.
 " " superintendent of health, from July, 1856, to January, 1884.
- *Snow, J. Lippitt, in common council, eighth ward, 1866 to 1869, and 1870.
 " " alderman, eighth ward, 1875.
- *Snow, Joseph T., in common council, seventh ward, 1868 to 1870.
- *Southwick, Isaac H., Jr., in common council, second ward, 1887 to 1890.
 " " justice of the police court, from April 24, 1899, to August 2, 1900. Resigned.
 " " member of the board of canvassers and registration, from August 1, 1900, to December 23, 1902. Died in office.
- *Spencer, Christopher V., in common council, sixth ward, 1834.
- *Spencer, Jonathan L., in common council, eighth ward, 1869 to 1871.
- *Spencer, William, in common council, fifth ward, 1856 to 1862, 1869 to 1871, and from August 19, 1874, to January, 1877.
 " " alderman, fifth ward, 1871 to 1873, and 1877 to 1880.
- *Spicer, George T., in common council, seventh ward, 1855.
 " " alderman, fourth ward, from June, 1870, to August 17, 1879. Died in office.
- Spicer, William A., in common council, seventh ward, 1882 to 1885.

- Spink, Arthur B., deputy city clerk, from January 19, 1903. Now in office.
- Spink, Benjamin W., in common council, ninth ward, 1898. Now in office.
- Spink, Joseph E., judge of the municipal court, from July 3, 1884. Now in office.
- *Sprague, Albert G., in common council, fourth ward, 1856 to 1859.
- Sprague, John L., license commissioner, from August, 1893, to November 22, 1901.
- *Sprague, Samuel S., in common council, sixth ward, 1868 to 1870.
 " " alderman, sixth ward, 1871 to 1873.
- *Sprague, Thomas W., in common council, seventh ward, 1859 to 1861.
- *Staples, William R., in common council, first ward, 1832.
 " " justice of the police court, June, 1833 to 1835.
- *Steere, Enoch, in common council, third ward, 1846 to 1850.
- Steere, George A., in common council, fourth ward, 1877 to 1879.
 " " deputy chief engineer of the fire department, from
 • March, 1883, to July 2, 1884. Resigned.
- " " chief engineer of the fire department, from July 2, 1884. Now in office.
- *Steere, Thomas E., in common council, second ward, from June, 1872, to February 22, 1873. Died in office.
- *Stillwell, Nicholas, in common council, third ward, July 17, 1837, to June, 1838.
- *Stimson, John J., in common council, fourth ward, March, 1834, to June, 1836.
 " " in common council, second ward, 1843 to 1848, and 1858. President, 1847.
- Stiness, Walter R., in common council, tenth ward, 1883.
- *Stokes, Martin C., in common council, seventh ward, February 28, 1854, to June, 1855.
- *Stokes, William L., in common council, tenth ward, 1884 to 1886.
- Stone, Alfred, in common council, second ward, 1885 to 1888.
- *Stone, Charles M., in common council, seventh ward, 1854 to 1855, 1856 to 1857, and 1865.
- *Stone, Jason P., in common council, ninth ward, 1892 to 1895.
 " " member of the board of canvassers and registration,
 from March 7, 1895, to March 9, 1898.
- Stone, Pardon M., in common council, sixth ward, 1851 to 1853, and seventh ward, 1865.
- Studley, J. Edward, commissioner of North Burial Ground, from January 1, 1894, to February 5, 1894. Resigned.

- *Studley, John M., license commissioner, from April, 1891. to May 24, 1893, and from August, 1893. to November 22, 1901.
- *Studley, Thomas E., in common council, third ward, 1879 to 1882.
- Sturges, Howard O., in common council. first ward, 1896 to 1898.
- *Swan, Samuel B., member of board of public works, from November 6, 1880, to March, 1883.
- “ “ superintendent of lights, from April 14, 1879, to March 3, 1890. Died in office.
- Swarts Gardner T., in common council, fourth ward, 1897 to 1900.
- Sweeney, Michael, in common council. sixth ward, 1888 to 1891.
- *Sweet, Jesse B., in common council, first ward, 1835 to 1837.
- *Sweet, Silas A., alderman, eighth ward, from June, 1872, to January, 1875.
- “ “ in common council, 1876 to 1880.
- *Sweet, Smith S., in common council, first ward, 1864 to 1871.
- *Taft, Cyrus, in common council, third ward, 1848.
- Taft, Royal C., in common council, second ward, 1855 to 1857.
- *Talcott, James M., superintendent of the Providence Reform School, August 5, 1850, to May, 1853, and July 1, 1860, to July 15, 1876.
- Tallman, Nelson, overseer of bridges, from January 25, 1875, to April 2, 1878.
- *Tallman, William, in common council, fifth ward, 1832.
- Tanner, Willard B., in common council, seventh ward, 1896 to 1898.
- Tarbell, Horace S., superintendent of public schools, from September 1, 1884, to June 30, 1902.
- *Taylor, John H., in common council. first ward, 1851 to 1859.
- “ “ alderman, first ward, 1863.
- *Taylor, Joseph W., chief of the fire department, July 11, 1853, to June, 1859.
- “ “ register of transfers, from June, 1860. to September 20, 1876. Died in office.
- *Teel, William H., license commissioner, from June, 1880, to June, 1883.
- Tew, George P., alderman, ninth ward, 1868 to 1871, and 1876, also from January, 1883, to June, 1883. President, 1869 to 1871.
- “ “ assessor of taxes, from June, 1883, to February 5, 1895.
- Thomas, Charles L., in common council, seventh ward, 1864 to 1866.
- Thompson, George E., highway commissioner, from January, 1879, to November 5, 1880.
- *Thornton, William L., in common council, sixth ward, 1839 to 1842.

- *Thurber, Dexter, surveyor of highways, from June to August 27, 1832.
 " " alderman, first ward, 1832.
- *Thurber, Edmund, in common council, first ward, 1849 to 1851.
- *Thurber, Isaac, in common council, first ward, 1839 to 1844.
 " " alderman, first ward, 1854 to 1856.
- Thurston, Benjamin, in common council, sixth ward, 1893 to 1895.
 " " alderman, sixth ward, 1895.
- *Tillinghast, Charles E., in common council, third ward, 1851 to 1855.
- *Tillinghast, Charles F., justice of the police court, 1832.
- Tillinghast, John W., in common council, seventh ward, 1879 to 1886.
- *Tillinghast, Stephen, city treasurer, from June, 1832, to June 15, 1840.
 Resigned.
- *Tingley, Edmund W., in common council, third ward, 1855 to 1857.
- *Tingley, Samuel, Jr., in common council, second ward, 1843 to 1847.
- *Tobey, John F., in common council, second ward, 1866 to 1869.
 " " alderman, third ward, 1879.
- Tower, Clifford S., in common council, first ward, 1904. Now in office.
- Tower, James H., in common council, fifth ward, 1876 to 1878, and 1879 to 1886.
- Trask, James K., in common council, ninth ward, 1882 to 1887.
 " " in common council, sixth ward, 1888 to 1891, 1893, and 1895 to 1902.
- Tripp, Benjamin, city treasurer, from August 24, 1868, to January 13, 1890.
- *Tripp, Stephen, city treasurer, from November 27, 1843, to February 14, 1849. Died in office.
- Truman, Nathan H., in common council, eighth ward, 1896.
- *Trumbull, Henry, in common council, sixth ward, 1837.
- *Tucker, James, Jr., in common council, sixth ward, 1855 to 1862.
- *Tucker, Zachariah R., in common council, third ward, 1857 to 1860, 1870 to 1872.
- *Tyler, Solomon, in common council, seventh ward, 1861.
- *Udike, Cæsar A., in common council, first ward, 1859 to 1862.
- *Van Slyck, Nicholas, in common council, fifth ward, from June, 1870, to August 10, 1874. President, from June, 1873, to August 10, 1874. Resigned.
- " " city solicitor, from August 10, 1874, to March 3, 1892. Died in office.
- Vaughan, Henry W., inspector of milk, from October 17, 1870, to March 29, 1877.

Vaughan, William P., in common council, first ward, 1888 to 1896.

" " commissioner of North Burial Ground, from February 5, 1894 to 1896.

*Veazie, Joseph, in common council, first ward, 1841.

*Viall, Nelson, chief of police, from June, 1866, to 1867.

*Viall, William, in common council, third ward, 1842 to 1846.

" " alderman, third ward, 1846.

Vincent, Walter B., alderman, first ward, 1898 to 1902.

" " President, 1900 to 1902.

*Vose, George L., in common council, eighth ward, 1890 to 1896.

" " park commissioner, January 5, 1891, to January 3, 1895.
Resigned.

Wade, Eben, in common council, fourth ward, 1840 to November 27, 1843.

Resigned.

*Walcott, Edward, in common council, 1848.

*Wales, Samuel H., license commissioner, from July 1, 1875, to May, 1886. Died in office.

Walker, Albert A., inspector of kerosene, from January 5, 1903, to January 4, 1904.

*Walker, Ebenezer W., in common council, sixth ward, 1853 to 1854, and seventh ward, 1859.

Walker, William D., mayor's clerk, from January 4, 1892, to January 1, 1894.

*Warner, James M., in common council, fourth ward, 1832 to 1834.

Warren, James G., in common council, eighth ward, 1889.

*Washburn, Oliver A., Jr., in common council, third ward, 1859 to 1863.

*Waterman, John O., in common council, fifth ward, 1847.

*Waterman, Stephen, in common council, fourth ward, 1855 to 1860.
President, 1856 to 1860; alderman, 1861.

" " in common council, second ward, 1869 to November 3, 1871.

Waterman, Thomas W., harbor master, 1884.

" " in common council, fifth ward, 1894 to 1898.

*Waterman, William H., in common council, first ward, 1847 to 1850.

" " alderman, first ward, 1856 to 1861.

Watson, Arthur H., in common council, second ward, 1883 to 1888.

" " " " first ward, 1888 to 1893. President, 1890 to 1893.

" " alderman, first ward, 1894 to 1896. President, 1895.

*Watson, Matthew, alderman, second ward, 1845 to 1847.

- *Weaver, Lucius, in common council, seventh ward, February 28 to June, 1854.
- *Webb, Henry A., city auditor, from June, 1863, to June 8, 1863. Resigned.
- “ “ assessor of taxes, from June, 1866, to June, 1885.
- *Webster, Henry L., in common council, first ward, 1854.
- *Weeden, Benjamin D., in common council, fourth ward, 1832 to July 10, 1834. Resigned.
- Weeden, William B., in common council, second ward, 1882 to 1884.
- *West, Ambrose E., in common council, tenth ward, 1888.
- “ “ alderman, tenth ward, 1889, and 1891 to 1895.
- *West, George J., in common council, tenth ward, 1895 to July 21, 1896. Died in office.
- West, Thomas F., in common council, tenth ward, 1897 to 1899.
- “ “ alderman, tenth ward, 1899.
- *Westcott, Amasa S., in common council, first ward, 1854.
- “ “ judge of the municipal court, from April, 1867, to July 3, 1884.
- Westcott, Oren, in common council, first ward, 1875 to January, 1878.
- “ “ commissioner of the North Burial Ground, from February 11, 1878, to January, 1895.
- *Wheaton, James, alderman, third ward, 1838 to 1842.
- *Wheaton, Samuel B., in common council, second ward, 1859 to October 8, 1860. Resigned.
- *Wheeler, Bennett W., in common council, third ward, 1862.
- *Wheeler, Edward R., in common council, sixth ward, 1881 to 1884.
- *Whelden, Joseph, in common council, first ward, 1878 to 1882.
- Whelden, Joseph N., in common council, second ward, 1899 to July, 2, 1903. Resigned.
- Whipple, William L., in common council, tenth ward, 1884 to 1887, and in eighth ward, 1896 to 1898.
- *Whitaker, Thomas, alderman, second ward, 1847 to May, 1852. Died in office.
- *Whitaker, William, in common council, fourth ward, 1862 to 1866.
- “ “ elected alderman, fourth ward. Died January 3, 1879, prior to the inauguration.
- Whitcomb, Bainbridge A., in common council, June, 1873, to January, 1875.
- *White, Albert C., in common council, second ward, 1892 to 1896.
- *White, Stillman, in common council, first ward, June, 1866, to 1872, and from January, 1875, to January, 1879, and in 1882.

- *White, Stillman, alderman, first ward, 1885 to 1887.
" " fire commissioner, from February 27, 1895, to March 3, 1902. Resigned.
- *White, Thomas, justice of the police court, June, 1834 to 1835, and June, 1836 to 1838.
- Whitehouse, James G., in common council, fifth ward, 1881 to 1886.
- Whiteley, Samuel, in common council, ninth ward, 1893 to 1896.
" " board of canvassers and registration, from January 5, 1903. Now in office.
- Whittemore Gilbert E., truant officer, 1893. Now in office.
- *Wiggin, Oliver C., inspector of milk. April 26 to October 17, 1870. Resigned.
- *Wightman, George W., overseer of the poor, from June, 1858, to January, 1890.
- *Wilbur, Pardon, in common council, second ward, from 1881 to 1883.
- Wilcox, Dutee, alderman, ninth ward, 1877 to 1880.
- *Willard, Hezekiah, in common council, fifth ward, 1839 to 1840, and 1841 to 1842.
- *Williams, Caleb, in common council, sixth ward, 1832 to 1834.
" " alderman, sixth ward, 1834 to 1839.
- *Williams, Edward S., in common council, fourth ward, 1842 to 1849.
- *Williams, N. Bangs, in common council, sixth ward, 1867.
- *Williams, William A., in common council, fifth ward, 1852 to September, 1854. Died in office.
- Williamson, Gustavus A., recorder of deeds, from June, 1866, to January 17, 1895.
- Wilson, Charles A., in common council, fourth ward, 1888 to 1890.
- Winn, Henry M., in common council, tenth ward, 1899 to 1903, and from January, 1904. Now in office.
- Winship, Henry B., alderman, fourth ward, 1890 to 1895, and 1898 to 1902.
" " park commissioner, from January 5, 1891, to May, 1897.
- *Winship, John B., surveyor of lumber, from February 10, 1873, to February, 1874.
- *Winsor, Andrew, in common council, seventh ward, 1876 to 1880.
- Winsor, Edwin, in common council, eighth ward, 1886 to 1895.
- Winsor, Ira, in common council, seventh ward, 1885 to 1888.
" " in common council, ninth ward, 1888 to 1895.
" " alderman, ninth ward 1895 to March 3, 1902. Resigned.
" " president, 1898 to 1900.

Winsor, Ira, fire marshal, from March 19, 1888, to January 21, 1904.
Resigned.

“ “ fire commissioner, March 3, 1902. Now in office.

Winsor, James B., in common council, seventh ward, 1878.

*Winsor, James W., in common council, sixth ward, 1852.

“ “ “ “ seventh ward, 1857.

*Winsor, Samuel A., in common council, seventh ward, February 28,
1854, to June, 1856.

Wood, George H., in common council, first ward, 1893 to 1896.

Wood, William H., in common council, fourth ward, from April 5, 1883,
to January, 1885.

Woods, John Carter Brown, in common council, second ward, from Feb-
ruary 1, 1877, to January, 1885. President, 1881 to 1885.

Wright, Nathan M., in common council, eighth ward, 1899 to 1901.

*Young, Allen P., in common council, first ward, 1881.

*Young, Edward R., in common council, third ward, 1838 to 1840.

MUNICIPAL ELECTION.

NOVEMBER 3, 1903.

Table showing the voters in each ward of the City of Providence:

WARDS.	VOTERS.			
	Real.	Personal.	Registry.	Total.
First ward.....	767	518	1,643	2,928
Second ward.....	843	307	1,664	2,814
Third ward.....	884	203	1,901	2,988
Fourth ward.....	379	467	1,845	2,691
Fifth ward.....	705	420	1,849	2,974
Sixth ward.....	1,069	269	1,654	2,992
Seventh ward.....	682	300	1,824	2,806
Eighth ward.....	876	234	1,750	2,860
Ninth ward.....	589	336	1,818	2,743
Tenth ward.....	872	299	1,511	2,682
Totals.....	7,666	3,353	17,459	28,478

MAYOR OF PROVIDENCE.

VOTE BY WARDS.

	Benson, Pro.	Herrick, S. L.	Kenyon, Rep.	Miller, Dem.
Ward 1.....	14	10	936	1,386
Ward 2.....	28	41	820	1,430
Ward 3.....	32	90	740	1,439
Ward 4.....	22	43	887	1,062
Ward 5.....	32	60	904	1,378
Ward 6.....	52	62	1,248	1,078
Ward 7.....	45	67	1,130	962
Ward 8.....	45	128	923	1,250
Ward 9.....	23	69	885	1,154
Ward 10.....	35	120	478	1,451
Totals	328	690	8,951	12,590

Miller elected by 3,639 plurality.

CITY TREASURER.

VOTE BY WARDS.

	Clarke, Pro. Rep.	Fletcher, Dem.	Rigney, S. L.
Ward 1.....	1,304	1,010	14
Ward 2.....	1,113	1,123	44
Ward 3.....	880	1,287	106
Ward 4.....	1,106	842	46
Ward 5.....	1,200	1,065	65
Ward 6.....	1,655	696	63
Ward 7.....	1,420	683	77
Ward 8.....	1,212	979	143
Ward 9.....	1,096	936	72
Ward 10.....	664	1,254	134
Totals	11,650	9,885	764

Clarke elected by 1,765 plurality.

HARBOR MASTER.

VOTE BY WARDS.

	Bucklin, Rep.	Gaus, S. L.	Maguire, Dem.	Studley, Pro.
Ward 1.....	1,108	9	1,234	9
Ward 2.....	947	43	1,289	30
Ward 3.....	771	92	1,418	23
Ward 4.....	967	43	991	17
Ward 5.....	1,060	50	1,232	25
Ward 6.....	1,445	64	875	63
Ward 7.....	1,288	68	821	31
Ward 8.....	1,021	133	1,149	31
Ward 9.....	974	70	1,055	24
Ward 10.....	533	123	1,402	23
Totals.....	10,112	695	11,466	276

Maguire elected by 1,354 plurality.

OVERSEER OF THE POOR.

VOTE BY WARDS.

	Cummings, Dem.	Gannon, S. L.	Gates, Rep.	White, Pro.
Ward 1.....	1,515	17	790	10
Ward 2.....	1,541	45	685	38
Ward 3.....	1,512	121	645	31
Ward 4.....	1,158	56	779	28
Ward 5.....	1,444	72	803	42
Ward 6.....	1,171	75	1,126	70
Ward 7.....	1,055	82	1,052	37
Ward 8.....	1,333	161	825	39
Ward 9.....	1,268	75	762	28
Ward 10.....	1,516	138	425	25
Totals.....	13,513	842	7,892	348

Cummings elected by 5,621 plurality.

VOTE FOR ALDERMEN.

FIRST WARD.

Districts.....	1	2	3	4	5	6	Total
Cooke, R.....	258	155	138	49	61	150	842

Stephen A. Cooke elected without opposition.

SECOND WARD.

Districts.....	1	2	3	4	5	Total
Dealey, R.....	79	23	64	69	236	471
Gray, D., G. G.....	90	87	80	131	128	516

Abraham A. Gray elected by 45 plurality.

THIRD WARD.

Districts.....	1	2	3	4	5	6	Total
Bardsley, R.....	20	56	31	66	76	68	317
McCarthy, D.....	31	63	33	101	118	114	460
McLaughlin, I.....	8	23	8	8	20	12	79

Dennis F. McCarthy elected by 143 plurality.

FOURTH WARD.

Districts.....	1	2	3	4	5	6	Total
Budlong, R., D.....	72	65	106	113	73	115	544

John C. Budlong elected without opposition.

FIFTH WARD.

Districts.....	1	2	3	4	5	6	Total
Irons, D.....	61	107	75	41	52	56	392
Reynolds, R.....	23	43	154	92	125	52	489

William K. Reynolds elected by 97 plurality.

SIXTH WARD.

Districts.....	1	2	3	4	5	6	Total
Freeman, R.....	79	58	183	192	127	88	727
Sanford, D.....	80	65	35	50	48	49	327

James F. Freeman elected by 400 plurality.

SEVENTH WARD.

Districts.....	1	2	3	4	5	Total
Baggott, D.....	22	29	42	54	83	230
Pierce, R.....	110	121	88	110	107	536

Lewis J. Pierce elected by 306 plurality.

EIGHTH WARD.

Districts.....	1	2	3	4	5	6	Total
Davis, G. G., D.....	74	69	80	87	50	63	423
Parker, R.....	64	147	98	108	116	34	567

Gilbert R. Parker elected by 144 plurality.

NINTH WARD.

Districts.....	1	2	3	4	5	6	Total
McKenna, D.....	32	34	77	42	31	33	249
Perkins, R.....	93	149	67	55	30	73	467

Burmah E. Perkins elected by 218 plurality.

TENTH WARD.

Districts.....	1	2	3	4	5	6	Total
Cannon, G. G.....	80	70	87	53	60	61	411
Covell, D., R.....	92	71	72	123	88	88	534
McDermott, S. L.....	2	8	15	3	7	3	38

William H. Covell elected by 123 plurality.

VOTE FOR COUNCILMEN.

FIRST WARD.

Districts.....	1	2	3	4	5	6	Total
Balch, R.....	257	161	170	47	63	142	840
Parks, R.....	254	155	171	42	54	141	817
Parsons, R.....	251	151	165	41	57	146	811
Tower, R.....	247	146	162	40	61	142	798

Balch, Parks, Parsons and Tower elected.

SECOND WARD.

Districts.....	1	2	3	4	5	Total
Beagan, D., G. G.....	68	77	63	121	84	413
Darling, R.....	98	29	63	69	246	505
Kelso, R.....	81	15	59	63	216	434
Kingley, D., G. G.....	78	92	64	115	81	430
Makepeace, R.....	73	21	54	58	261	467
Maxson, R.....	54	18	50	54	225	401
Peterson, D., G. G....	109	89	75	138	125	536
Sisson, D., G. G.....	102	88	70	138	146	544

Sisson, Peterson, Darling and Makepeace elected.

THIRD WARD.

Districts	1	2	3	4	5	6	Total
Devlin, D.....	32	65	32	96	130	106	461
Dunn, D.....	27	68	28	99	114	149	485
Flynn, D.....	20	69	30	110	113	127	469
Giblin, R.....	25	79	35	72	80	65	366
Leach, R.....	20	51	22	46	77	64	280
McGovern, D.....	22	60	30	101	107	120	440
Rafferty, R.....	26	66	28	77	79	57	333
Winograd, R.....	30	48	34	38	70	39	259

Dunn, Flynn, Devlin and McGovern elected.

FOURTH WARD.

Districts	1	2	3	4	5	6	Total
Canning, R., D.....	68	57	97	93	69	119	503
Evans, R., D.....	62	58	92	93	62	101	468
Presbrey, R., D.....	63	59	101	103	60	106	492
Rawson, R., D.....	60	55	89	91	57	102	454

Canning, Evans, A. A. Presbrey and Rawson elected.

FIFTH WARD.

Districts	1	2	3	4	5	6	Total
Carlson, D.....	48	105	58	31	32	49	323
L. Canning, D.....	58	108	60	26	35	52	339
Grinnell, D.....	56	103	74	42	49	55	379
Hoxsie, D.....	57	122	69	31	42	51	372
Lake, R.....	25	28	136	80	115	49	433
Leonard, R.....	24	36	146	81	112	49	448
Moore, R.....	25	34	160	99	132	48	498
Smith, R.....	23	32	155	100	130	49	489

Lake, Leonard, Moore and Smith elected.

SIXTH WARD.

Districts	1	2	3	4	5	6	Total
Daley, D.....	69	51	46	39	28	45	278
Dyer, D.....	76	62	50	45	36	57	326
Grant, R.....	74	62	167	206	150	82	741
Higgins, R.....	60	54	147	184	132	73	650
Maguire, D.....	79	55	44	37	26	53	294

Miller, R.....	80	70	168	201	143	89	751
Root, R.....	62	59	153	197	146	76	693
Stone, D.....	76	59	50	54	43	58	340

Grant, Higgins, Miller and Root elected.

SEVENTH WARD.

Districts	1	2	3	4	5	Total
Bixby, R.....	109	124	80	98	90	501
Connolly, D.....	19	20	43	61	97	240
Fletcher, R.....	108	128	86	96	90	508
Kirby, D.....	21	24	33	57	92	227
Louthe, D.....	15	19	30	49	78	191
O'Donnell, D.....	17	18	29	55	83	202
Potter, Jr., R.....	109	129	91	100	87	516
W. A. Presbrey, R.....	108	123	86	96	86	499

Bixby, Fletcher, Potter and W. A. Presbrey elected.

EIGHTH WARD.

Districts	1	2	3	4	5	6	Total
Barr, G. G., D.....	67	85	93	83	52	67	447
Baron, G. G., D.....	57	79	61	69	38	57	361
Daw, R.....	65	131	81	106	117	30	530
Darling, R.....	60	125	95	100	116	31	527
Harlow, G. G., D.....	61	78	78	83	43	57	400
Littlefield, R.....	69	128	82	110	123	31	543
San Souci, R.....	75	151	85	104	122	40	577
Troy, G. G., D.....	55	64	78	64	42	59	362

J. O. Darling, Daw, Littlefield and San Souci elected.

NINTH WARD.

Districts	1	2	3	4	5	6	Total
Aiello, D.....	29	31	65	41	32	29	227
Carrigan, D.....	29	38	71	42	33	31	244
Grimwood, R.....	93	147	69	54	29	75	467
Gorham, R.....	94	143	65	53	27	72	454
Kendrick, R.....	92	147	67	51	29	75	461
Spink, R.....	95	144	62	53	24	73	451
Troy, D.....	29	36	74	44	31	32	246
Young, D.....	30	39	70	42	33	42	256

Kendrick, Grimwood, Gorham and Spink elected.

TENTH WARD.

Districts	1	2	3	4	5	6	Total
Armstrong, G. G.	93	68	70	66	66	73	436
Coffey, G. G.	87	76	84	71	54	68	440
Donahue, S. L.	3	7	14	4	8	9	45
Grady, D., R.	81	48	58	86	87	79	439
Hall, D., R.	74	61	51	112	86	73	457
Kelly, D., R.	75	55	52	92	70	63	407
Murray, S. L.	4	11	20	5	12	12	64
McGuigan, S. L.	2	14	18	5	8	7	54
McTiernan, G. G.	63	61	79	54	47	47	351
Powers, S. L.	2	9	12	4	12	7	46
Ryan, D., R.	69	71	61	90	63	68	422
Winn, G. G.	78	69	112	68	63	75	465

Coffey, Grady, Hall and Winn elected.

RRepublican.
 DDemocrat.
 ProProhibition.
 S. L.....Socialist Labor.
 IIndependent.
 G. G....Good Government.

FACTS ABOUT PROVIDENCE.

[From the Real Estate Register and Rental Guide.]

Area, 18.29 square miles.
 Population, 193,000.
 Rate of mortality, 21.05 per 1,000.
 Valuation of real estate, \$157,427,460.
 Valuation of personal property, \$43,241,080.

Tax rate, \$13.50 per \$100.

Total net indebtedness, exclusive of water debt, \$9,303,536.85.
 Sinking fund, \$4,527,482.49.

The credit of the city is high in financial circles.

Revenue from tax on franchises in 1903:

Street Railway Co....\$66,275.46
 Electric Light Co..... 34,780.29
 Providence Gas Co.... 27,093.54
 Telephone Co..... 10,059.60

There are 1,650 streets, extending 238 miles, maintained at a cost of \$301,728, and guarded by 300 patrolmen at an expense of \$389,999.73 during the last fiscal year. A most excellent system of lighting is in operation, which combines 1,808 arc lights at an

annual cost of \$109.50 each, 2,024 incandescents at \$24 each and 806 Welsbach gas lights at \$30 each, per year.

Streets are constructed as follows: 188.84 miles with gravel or crushed stone, 30.62 miles with granite blocks, 5.64 miles with cobble stones, .42 miles with brick, 4.92 miles with Trinidad asphalt and .47 miles with vulcanite.

There are 341.75 miles of water pipe laid in the streets, and 5.57 miles of high-pressure fire service pipes.

The sewerage system of the city is 196.28 miles in extent.

There are 19 parks, containing an aggregate of 570 acres.

There are 100 public day schools, graded as follows: 4 high, 15 grammar, 71 primary, 7 schools for individual work, and 3 for backward children; also 18 evening schools, employing in all 885 teachers; number of children of school age, 34,281; expense during last fiscal year, \$688,880.76.

Churches and missions, 145.

Hotels, 20.

Theatres, 6.

National banks, 15.

State banks, 2.

Savings banks, 4.

Trust companies, 7.

Combined capital of banks and trust companies, \$12,661,000.

Deposits in savings banks, \$39,996,034.

Bank clearings for 1903, \$357,276,100.

Value of imports last year, \$1,624,923; amount of duty collected, \$272,206.17.

There were 655 new buildings, costing \$3,321,900, erected in 1903, and 451 additions and alterations were made, for \$473,600.

Providence is the first city in the country in manufacture of jewelry, worsteds and silverware.

It has the largest mechanical tool factory, file factory, engine factory, screw factory and silverware factory in the world, and a total of 784 manufactories, employing 34,781 operatives, with an annual production of \$76,975,533, according to United States census of 1900.

It has the most efficient fire department in the country, composed of 29 companies, numbering 256 officers and men, maintained at a cost of \$360,000 in 1903.

It has good water, furnished to consumers at 20 cents per thousand gallons. Average daily consumption, 120,000,000 gallons.

Gas costs \$1.05 per thousand feet.

It has the best equipped street railway in the country, operating 148 miles of tracks within the city limits and carrying 58,000,000 passengers annually.

One hundred and forty-seven telephone operators answer 57,000 calls daily for 7,600 subscribers in Providence.

It is the largest city between Boston and New York and has the best natural harbor in New England.

It offers better facilities for business than any city in New England.

Its officials are courteous and conduct their offices on approved business lines.

The departments in City Hall are easily accessible if you know where to go.

The Municipal Court has jurisdiction in all probate matters. Sits every Tuesday at 9 A. M. for new business, except in July and August, when it is in session second and fourth Tuesdays. Also for unfinished business on Fridays following above Tuesdays.

Every person liable to taxation should make oath before one of the Assessors to the valuation of his ratable estate on published notice of the Board, which is usually given in June of each year. Persons who have been erroneously taxed must make application to the City Council for the remission of such tax. Errors in the assessment of taxes are usually corrected by the City Council after an investigation by the Committee on Claims.

Marriage licenses are issued by the Registrar at office of Board of Health. Both parties must appear in person, and if either is a minor must be accompanied by a parent or guardian; office hours, 9 A. M. to 5 P. M.; Saturdays, 9 to 12.

See that births are recorded with the Registrar in above office.

Enter sanitary complaints or failure to collect swill at Board of Health. Meats and provisions are also inspected by this department.

Permits to build or make alterations are granted by the Inspector of Buildings in case of barns, only after reference to Board of Aldermen for permission to locate.

Permits to locate boilers for building purposes are granted by Inspector of Buildings; for any other purpose by the Board of Aldermen.

The inspection of fire escapes and elevators is also made by the Inspector of Buildings.

Certificates of compliance with fire escape law issued by Inspector of Buildings.

Plumber's license is granted by Commissioner of Public Works on approval of Inspector of Plumbing.

Applications for water or for opening a street must be made to the Commissioner of Public Works.

Petitions to the City Council for street lights, sewers, layout of highways, for remission of taxes and claims for damages can be obtained of the City Clerk or the Clerk of Committees, City Hall.

For curbing a street apply to Board of Aldermen; get petition at office of City Clerk.

For licenses to sell liquors apply to the Board of Police Commissioners, 161 Fountain street.

Carriage, dog, peddler's pool table, victualer's, tavern, and entertainment licenses are also granted by Board of Police Commissioners.

Free vaccination of children at Fourth Ward room, Fountain street, every Friday from 2 to 3 P. M.

Applicants for relief are required to pay for a portion of the aid rendered by work in the Charity Wood Yard, 616 Eddy street.

THIRTIETH ANNUAL REPORT
OF THE
BOARD OF COMMISSIONERS OF SINKING FUNDS.

[Presented January 4, 1904.]

TO THE HONORABLE THE CITY COUNCIL OF THE CITY OF PROVIDENCE :

The Board of Commissioners of Sinking Funds make this their thirtieth annual report of the condition of the several sinking funds under their control, on the thirty-first day of December, 1903, and of the North Burial Ground perpetual care fund.

The bonds and notes comprised in the funded debt, for the redemption of which sinking funds are held by the commissioners, the purposes for which they were issued, the amounts of the sinking funds, and the increase of each are shown by the following table :

BONDS.	DEBT. Dec. 31, 1903.	SINKING FUND.		
		Dec. 31, 1902.	Increase, 1903.	Dec. 31, 1903.
Due May 1, 1929, for pub. improvmt's (3 pr. ct.).....	\$84,000.00	\$7,574.33	1,969.68	\$9,544.01
Due May 1, 1937, for pub. improv'mts (3½ pr. ct.).....	640,000.00	53,471.91	9,977.36	63,449.27
Due July 1, 1906, for water works (5 pr. ct.).....	1,500,000.00	1,007,651.80	298,422.54	1,304,074.34
Due July 1, 1906, for water works (3 pr. ct.).....	90,000.00	.....	.....	.....
Due 1916 for water works (3½ pr. ct.).....	483,000.00	114,255.88	4,042.60	118,298.48
Due April 1, 1923, for water works (4 pr. ct.).....	817,000.00	64,654.87	2,680.25	67,335.12
Due June 1 1926, for water works (4 pr. ct.).....	200,000.00	31,921.62	1,247.28	33,168.90
Due April 1, 1927, for water works (4 pr. ct.).....	250,000.00	37,769.75	1,512.25	39,282.00
Amount carried forward.....	\$4,064,000.00	\$1,317,300.16	317,851.96	\$1,635,152.12

BONDS.	DEBT. Dec. 31, 1903.	SINKING FUND.		
		Dec. 31, 1902.	Increase, 1903.	Dec. 31, 1903.
Amount brought forward.....	\$4,064,000.00	\$1,317,300.16	317,851.96	\$1,635,152.12
Due May 1, 1930, for water refunding (3 pr. ct.).....	2,666,000.00	3,316.68	128.84	3,445.52
Due July 1, 1909, for pur. of Davis est. (4 pr. ct.).....	75,000.00	44,988.34	4,422.14	49,410.48
Due July 1, 1911, for school loan (4 pr. ct.).....	300,000.00	196,213.59	20,333.08	216,546.67
Due May 1, 1925, for school loan (4 pr. ct.).....	300,000.00	100,639.77	8,488.76	109,128.53
Due April 1, 1927, for school loan (4 pr. ct.).....	500,000.00	149,918.24	15,270.45	165,188.69
Due May 1, 1929, for school loan (3½ pr. ct.).....	350,000.00	62,090.33	9,209.28	71,305.61
Due July 1, 1921, for sewers (4 pr. ct.)	1,125,000.00	377,900.66	38,529.31	416,429.97
Due March 1, 1922, for sewers (4 pr. ct.).....	500,000.00	192,694.52	16,529.59	209,224.11
Due April 1, 1923, for sewers (4 pr. ct.).....	500,000.00	154,014.04	15,194.16	169,208.20
Due May 1, 1925, for sewers (4 pr. ct.)	800,000.00	252,894.00	24,791.85	277,685.85
Due June 1, 1926, for sewers (4 pr. ct.)	500,000.00	157,042.84	15,575.57	172,618.41
Due April 1, 1927, for sewers (4 pr. ct.).....	300,000.00	87,199.94	9,106.43	96,306.37
Due April 1, 1928, for sewers (3½ pr. ct.).....	200,000.00	35,747.38	5,299.53	41,046.91
Due May 1, 1929, for sewers (3 pr. ct.)	250,000.00	20,917.01	5,751.70	26,668.71
Due May 1, 1930, for sewers (3 pr. ct.)	300,000.00	18,304.87	6,607.78	24,912.65
Due May 1, 1931, for sewers (3 pr. ct.)	300,000.00	12,216.11	6,368.50	18,584.61
Due Nov. 2, 1933, for sewers (3½ pr. ct.).....	500,000.00	.....	10,000.00	10,000.00
Due March 1, 1922, for purchase of land for parks (4 pr. ct.).....	500,000.00	188,597.01	16,815.34	205,412.35
Due May 1, 1947, for parks (3½ pr. ct.)	674,000.00	37,115.34	6,906.82	44,022.16
Due Jan. 1, 1912, for highways (3 pr. ct.).....	150,000.00	13,000.00	13,428.60	26,428.60
Due May 1, 1924, for highways (4 pr. ct.).....	1,200,000.00	442,740.40	40,488.50	483,228.90
Due April 1, 1927, for highways (4 pr. ct.).....	500,000.00	154,707.58	15,338.05	170,045.63
Due May 1, 1930, for highways (3 pr. ct.).....	300,000.00	18,957.69	6,613.53	25,571.22
Due May 1, 1929, for Weybosset Bridge (3½ pr. ct.).....	270,000.00	47,980.13	7,289.64	55,269.77
Due Nov. 1, 1932, for Fire and Police (3½ pr. ct.).....	258,000.00	5,160.00	5,373.10	10,533.10
Due Sept. 1, 1939, Johnston Annex'n (3 pr. ct.).....	166,000.00	9,375.80	2,525.92	11,901.72
ISSUED BY TOWN OF JOHNSTON:				
Due Nov. 1, 1927, School Dist. No. 1 (4 pr. ct.).....	17,000.00	2,677.50	432.18	3,109.68
Due Oct. 1, 1909, School Dist. No. 15 (4 pr. ct.).....	25,000.00	10,920.97	1,751.39	12,672.36
Due Oct. 1, 1924, School Dist. No. 15 (4 pr. ct.).....	30,000.00	5,262.07	787.08	6,049.15
Due Feb. 1, 1912, Town of Johnston (4 pr. ct.).....	50,000.00	13,010.28	3,223.60	16,233.88
Due Feb. 1, 1917, Town of Johnston (4 pr. ct.).....	59,000.00	10,682.14	2,673.72	13,355.86
Sinking Fund for Redemption of City Debt.....	.....	15,293.44	16,763.82	32,057.26
Totals.....	\$17,729,000.00	\$4,158,884.83	669,870.72	\$4,828,755.55

Sinking fund to redeem bonds due in 1929 (public improvement loan).
This fund amounts to \$9,544.01, and is invested as follows:

City of Providence bonds due in 1912 (highways).....	\$3,000 00
City of Providence note payable on demand.....	2,000 00
Cash on hand.....	4,544 01
<hr/>	
Total.....	\$9,544 01

Sinking fund to redeem bonds due in 1937 (public improvement loan).
This fund amounts to \$63,449.27, and is invested as follows:

City of Providence Bonds due in 1939 (Johnston Annexation)	\$15,000 00
City of Providence bond due in 1930 (water refunding) ..	10,000 00
City of Providence bonds due in 1931 (sewer).....	7,000 00
City of Providence bond due in 1932 (fire and police) ..	5,000 00
City of Providence bond due in 1933 (sewer).....	10,000 00
City of Providence notes payable on demand.....	10,999 23
Cash on hand	5,450 04
<hr/>	
Total	\$63,449 27

Sinking fund to redeem bonds due in 1906 (water loan). This fund amounts to \$1,304,074.34, and is invested as follows:

City of Providence bonds due in 1906 (water).....	\$295,000 00
City of Providence bonds due in 1927 (highways).....	60,000 00
City of Providence bonds due in 1912 (highways).....	43,000 00
City of Providence bonds due in 1947 (parks).....	160,000 00
City of Worcester bonds due in 1909.....	50,000 00
City of Cambridge bonds due in 1939.....	40,000 00
City of Providence bonds due in 1933 (sewer).....	260,000 00
City of Providence bonds due in 1906 (3 per cent).....	7,000 00
City of Providence bonds due in 1930 (water refunding)	10,000 00
City of Providence bonds due in 1931 (sewer).....	109,000 00
City of Providence notes payable on demand.....	189,300 00
Cash on hand.....	80,774 34
<hr/>	
Total	\$1,304,074 34

Sinking fund to redeem bonds due in 1916 (water loan). This fund amounts to \$118,298.48, and is invested as follows:

City of Providence bonds due in 1906 (water).....	\$4,000 00
City of Providence bonds due in 1912 (highways).....	2,000 00
City of Providence bonds due in 1916 (water).....	15,000 00
City of Providence bonds due in 1937 (public improve- ments)	80,000 00
City of Providence bonds due in 1927 (highways).....	9,000 00
City of Providence note payable on demand.....	2,000 00
Cash on hand.....	6,298 48
Total.....	<u>\$118,298 48</u>

Sinking fund to redeem bonds due in 1923 (water loan). This fund amounts to \$67,335.12, and is invested as follows:

City of Providence bonds due in 1908 (water).....	\$27,000 00
City of Providence bonds due in 1939 (Johnston annexa- tion)	19,000 00
City of Providence bonds due in 1912 (highways).....	3,000 00
City of Providence bonds due in 1911 (school).....	3,000 00
City of Providence bonds due in 1921 (sewer).....	7,000 00
City of Providence bonds due in 1923 (water).....	3,000 00
City of Providence note payable on demand.....	1,000 00
Cash on hand	4,335 12
Total.....	<u>\$67,335 12</u>

Sinking fund to redeem bonds due in 1926 (water loan). This fund amounts to \$33,168.90, and is invested as follows:

City of Providence bonds due in 1912 (highways).....	\$2,000 00
City of Providence bonds due in 1927 (highways).....	28,000 00
Cash on hand.....	3,168 90
Total.....	<u>\$33,168 90</u>

Sinking fund to redeem bonds due in 1927 (water loan). This fund amounts to \$39,282.00, and is invested as follows:

City of Providence bonds due in 1912 (highways).....	\$2,000 00
City of Providence bonds due in 1927 (highways).....	34,000 00
City of Providence note payable on demand.....	2,500 00
Cash on hand.....	782 00
Total.....	<u>\$39,282 00</u>

Sinking fund to redeem bonds due in 1930 (water refunding). This fund amounts to \$3,445.52, and is invested as follows:

City of Providence bonds due in 1927 (highways).....	\$3,000 00
Cash on hand	445 52
Total	\$3,445 52

Sinking fund to redeem bonds due in 1909 (Davis Estate). This fund amounts to \$49,410.48, and is invested as follows:

City of Providence bonds due in 1939 (Johnston annexation)	\$33,000 00
City of Providence bond due in 1930 (water refunding)	5,000 00
City of Providence bonds due in 1912 (highways).....	2,000 00
City of Providence note payable on demand.....	5,000 00
Cash on hand	4,410 48
Total	\$49,410 48

Sinking fund to redeem bonds due in 1911 (school loan).) This fund amounts to \$216,546.67, and is invested as follows:

City of Providence bond due in 1912 (highways).....	\$5,000 00
City of Providence bonds due in 1931 (sewer).....	7,000 00
City of Providence bonds due in 1906 (water).....	10,000 00
City of Providence bonds due in 1932 (fire and police) ..	35,000 00
City of Providence bonds due in 1937 (public improvement)	80,000 00
City of Providence bonds due in 1933 (sewer).....	10,000 00
City of Providence bonds due in 1911 (school).....	20,000 00
City of Providence bonds due in 1927 (highways).....	35,000 00
City of Providence note payable on demand.....	3,500 00
Cash on hand	11,046 67
Total	\$216,546 67

Sinking funds to redeem bonds due in 1925 (school loan). This fund amounts to \$109,128.53, and is invested as follows:

City of Providence bonds due in 1931 (sewer).....	\$7,000 00
City of Providence bond due in 1930 (sewer).....	5,000 00
City of Providence bonds due in 1912 (highway).....	2,000 00
City of Providence bonds due in 1947 (parks).....	78,000 00
City of Providence bond due in 1933 (sewer).....	10,000 00
Cash on hand	7,128 53
Total	\$109,128 53

Sinking fund to redeem bonds due in 1927 (school loan). This fund amounts to \$165,188.69, and is invested as follows:

City of Providence bonds due in 1912 (highways).....	\$3,000 00
City of Providence bonds due in 1931 (sewer).....	18,000 00
City of Providence bonds due in 1930 (water refunding)	10,000 00
City of Providence bonds due in 1932 (fire and police) ..	20,000 00
City of Providence bonds due in 1937 (public improve- ments	60,000 00
City of Providence bonds due in 1933 (sewer).....	10,000 00
City of Providence bonds due in 1927 (highways).....	3,000 00
City of Providence notes payable on demand.....	35,500 00
Cash on hand	5,688 69
Total	\$165,188 69

Sinking funds to redeem bonds due in 1929 (school loan). This fund amounts to \$71,305.61, and is invested as follows:

City of Providence bonds due in 1912 (highways).....	\$3,000 00
City of Providence bonds due in 1931 (sewer).....	8,000 00
City of Providence bonds due in 1930 (sewer).....	5,000 00
City of Cambridge, Mass., bonds due in 1939.....	30,000 00
City of Providence bonds due in 1927 (highways).....	7,000 00
City of Providence note payable on demand.....	9,000 00
Cash on hand	9,305 61
Total.....	\$71,305 61

Sinking fund to redeem bonds due in 1921 (sewer loan). This fund amounts to \$416,429.97, and is invested as follows:

City of Providence bonds due in 1912 (highway).....	\$29,000 00
City of Providence bond due in 1931 (sewer).....	10,000 00
City of Providence bonds due in 1906 (water).....	10,000 00
City of Providence bonds due in 1930 (water refunding)	25,000 00
City of Providence bonds due in 1932 (fire and police) ..	30,000 00
City of Providence bonds due in 1947 (parks).....	145,000 00
City of Providence bonds due in 1933 (sewer).....	40,000 00
City of Providence bond due in 1921 (sewer).....	1,000 00
City of Providence bonds due in 1927 (sewer).....	120,000 00
Cash on hand	6,429 97
Total	\$416,429 97

Sinking fund to redeem bonds due in 1922 (sewer loan). This fund amounts to \$209,224.11, and is invested as follows:

City of Providence bonds due in 1939 (Johnston annexation)	\$45,000 00
City of Providence bonds due in 1912 (highways).....	6,000 00
City of Providence bond due in 1930 (water refunding) ..	10,000 00
City of Providence bonds due in 1932 (fire and police) ..	16,000 00
City of Providence bonds due in 1937 (public improvements)	100,000 00
City of Providence bond due in 1933 (sewer).....	10,000 00
City of Providence bonds due in 1922 (sewer).....	5,000 00
City of Providence bond due in 1927 (highways).....	10,000 00
Cash on hand	7,224 11
Total	\$209,224 11

Sinking fund to redeem bonds due in 1923 (sewer loan). This fund amounts to \$169,208.20, and is invested as follows:

City of Providence bonds due in 1939 (Johnston annexation)	\$44,000 00
City of Providence bond due in 1912 (highways).....	5,000 00
City of Providence bond due in 1930 (water refunding) ..	10,000 00
City of Providence bonds due in 1932 (fire and police) ..	15,000 00
City of Providence bonds due in 1937 (public improvements)	60,000 00
City of Providence bond due in 1933 (sewer).....	10,000 00
City of Providence bond due in 1923 (sewer).....	10,000 00
City of Providence bond due in 1927 (highways).....	10,000 00
Cash on hand	5,208 20
Total	\$169,208 20

Sinking fund to redeem bonds due in 1925 (sewer loan). This fund amounts to \$277,685.85, and is invested as follows:

City of Providence bonds due in 1912 (highways).....	\$3,000 00
City of Providence bond due in 1931 (sewer).....	5,000 00
City of Providence bond due in 1906 (water).....	5,000 00
City of Providence bonds due in 1930 (water refunding) ..	16,000 00
City of Providence bonds due in 1932 (fire and police) ..	15,000 00
City of Providence bonds due in 1933 (sewer).....	30,000 00
City of Providence bonds due in 1927 (highways).....	69,000 00
City of Providence bonds due in 1927 (sewer).....	130,000 00
Cash on hand	4,685 85
Total	\$277,685 85

Sinking fund to redeem bonds due in 1926 (sewer loan). This fund amounts to \$172,618.41, and is invested as follows:

City of Providence bond due in 1930 (water refunding)	\$10,000 00
City of Providence bond due in 1912 (highways).....	5,000 00
City of Providence bond due in 1932 (fire and police)...	16,000 00
City of Providence bonds due in 1937 (public improve- ments)	80,000 00
City of Providence bond due in 1933 (sewer).....	10,000 00
City of Cambridge bond due in 1918.....	14,000 00
City of Providence bonds due in 1927 (highways).....	32,000 00
Cash on hand	5,618 41
Total	<u>\$172,618 41</u>

Sinking fund to redeem bonds due in 1927 (sewer loan). This fund amounts to \$96,306.37, and is invested as follows:

City of Providence bonds due in 1906 (water).....	\$21,000 00
City of Providence bonds due in 1931 (sewer).....	8,000 00
City of Providence bond due in 1930 (sewer).....	5,000 00
City of Providence bonds due in 1932 (fire and police).	6,000 00
City of Providence bond due in 1933 (sewer).....	10,000 00
City of Providence bonds due in 1927 (highways).....	42,000 00
City of Providence note payable on demand.....	4,000 00
Cash on hand	306 37
Total	<u>\$96,306 37</u>

Sinking fund to redeem bonds due in 1928 (sewer loan). This fund amounts to \$41,046.91, and is invested as follows:

City of Providence bonds due in 1912 (highways).....	\$4,000 00
City of Providence bond due in 1931 (sewer).....	5,000 00
City of Providence bond due in 1932 (fire and police)..	5,000 00
City of Providence bonds due in 1927 (highways).....	21,000 00
Cash on hand	6,046 91
Total	<u>\$41,046,91</u>

Sinking fund to redeem bonds due in 1929 (sewer loan). This fund amounts to \$26,668.71, and is invested as follows:

City of Providence bond due in 1930 (sewer).....	\$5,000 00
City of Providence bond due in 1932 (fire and police)..	5,000 00
City of Providence bond due in 1927 (highways).....	10,000 00
Cash on hand	6,668 71
Total	<u>\$26,668 71</u>

Sinking fund to redeem bonds due in 1930 (sewer). This fund amounts to \$24,912.65, and is invested as follows:

City of Providence bond due in 1930 (sewer).....	\$5,000 00
City of Providence bond due in 1932 (fire and police) ..	5,000 00
City of Providence bond due in 1927 (highways).....	5,000 00
Cash on hand	9,912 65
Total	\$24,912 65

Sinking fund to redeem bonds due in 1931 (sewers). This fund amounts to \$18,584.61, and is invested as follows:

City of Providence bond due in 1930 (sewer).....	\$5,000 00
City of Providence bond due in 1932 (fire and police)...	5,000 00
Cash on hand	8,584 61
Total	\$18,584 61

Sinking fund to redeem bonds due in 1933 (sewer loan). This fund amounts to \$10,000, and is invested as follows:

City of Providence bond due in 1933 (sewer).....	\$10,000 00
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Sinking fund to redeem bonds due in 1922 (park loan). This fund amounts to \$205,412.85, and is invested as follows:

City of Providence bonds due in 1912 (highways).....	\$3,000 00
City of Providence bonds due in 1906 (water).....	7,000 00
City of Providence bond due in 1930 (water refunding)	10,000 00
City of Providence bonds due in 1932 (fire and police) ..	15,000 00
City of Providence bonds due in 1937 (public improve- ments)	100,000 00
City of Providence bond due in 1933 (sewer).....	10,000 00
City of Providence bonds due in 1922 (parks).....	2,000 00
City of Providence bonds due in 1927 (highways).....	50,000 00
City of Providence note payable on demand.....	5,000 00
Cash on hand	3,412 85
Total.....	\$205,412 85

Sinking fund to redeem bonds due in 1947 (park loan). This fund amounts to \$44,022.16, and is invested as follows:

City of Providence bond due in 1939 (Johnston annexa- tion)	\$10,000 00
City of Providence bond due in 1931 (sewer).....	5,000 00

City of Providence bond due in 1930 (sewer).....	\$5,000 00
City of Providence bonds due in 1912 (highways).....	3,000 00
City of Providence bond due in 1932 (fire and police)..	5,000 00
City of Providence bonds due in 1947 (parks).....	7,000 00
Cash on hand.....	9,022 13

Total	\$44,022 16
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Sinking fund to redeem bonds due in 1912 (highway loan). This fund amounts to \$26,428.60, and is invested as follows:

City of Providence bond due in 1932 (fire and police)..	\$10,000 00
City of Providence bond due in 1933 (sewer).....	10,000 00
Cash on hand	6,428 60

Total	\$26,428 60
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Sinking fund to redeem bonds due in 1924 (highway loan). This fund amounts to \$483,228.90, and is invested as follows:

City of Providence bonds due in 1930 (water refunding)	\$25,000 00
City of Providence bonds due in 1931 (sewer).....	12,000 00
City of Providence bonds due in 1912 (highways).....	7,000 00
City of Providence bonds due in 1932 (fire and police)..	30,000 00
City of Providence bonds due in 1937 (public improvements)	80,000 00
City of Providence bonds due in 1947 (parks).....	224,000 00
City of Providence bonds due in 1933 (sewer).....	40,000 00
City of Fall River bond due in 1929.....	30,000 00
City of Providence notes payable on demand.....	33,000 00
Cash on hand	2,228 90

Total.....	\$483,228 90
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Sinking fund to redeem bonds due in 1927 (highway loan). This fund amounts to \$170,045.63, and is invested as follows:

City of Providence bonds due in 1931 (sewer).....	\$14,000 00
City of Providence bonds due in 1906 (water).....	25,000 00
City of Providence bond due in 1930 (water refunding)	10,000 00
City of Providence bonds due in 1932 (fire and police)..	15,000 00
City of Providence bonds due in 1947 (parks).....	60,000 00

City of Providence bond due in 1933 (sewer).....	\$10,000 00
City of Providence bonds due in 1927 (highways).....	28,000 00
City of Providence note payable on demand.....	2,000 00
Cash on hand.....	6,045 63
Total.....	<u>\$170,045 63</u>

Sinking fund to redeem bonds due in 1930 (highways). This fund amounts to \$25,571.22, and is invested as follows:

City of Providence bond due in 1930 (sewer).....	\$5,000 00
City of Providence bond due in 1931 (sewer).....	5,000 00
City of Providence bond due in 1906 (water).....	1,000 00
City of Providence bond due in 1932 (fire and police)..	5,000 00
City of Providence note payable on demand.....	3,000 00
Cash on hand.....	6,571 22
Total.....	<u>\$25,571 22</u>

Sinking fund to redeem bonds due in 1929 (Weybosset bridge loan). This fund amounts to \$55,269.77, and is invested as follows:

City of Providence bonds due in 1912 (highway).....	\$2,000 00
City of Providence bond due in 1930 (sewer).....	5,000 00
City of Providence bond due in 1931 (sewer).....	5,000 00
City of Providence bonds due in 1927 (highways).....	28,000 00
City of Providence bond due in 1933 (sewer).....	10,000 00
City of Providence note payable on demand.....	5,000 00
Cash on hand	269 77
Total.....	<u>\$55,269 77</u>

Sinking fund to redeem bonds due in 1932 (fire and police). This fund amounts to \$10,533.10, and is invested as follows:

City of Providence note payable on demand.....	\$5,000 00
Cash on hand.....	5,533 10
Total.....	<u>\$10,533 10</u>

Sinking fund to redeem bonds due in 1939 (Johnston annexation). This fund amounts to \$11,901.72, and is invested as follows:

City of Providence bond due in 1912 (highways).....	\$5,000 00
City of Providence bonds due in 1927 (highways).....	2,000 00
City of Providence note payable on demand.....	2,500 00
Cash on hand.....	2,401 72
Total.....	<u>\$11,901 72</u>

Sinking fund to redeem bonds due in 1927 (School District No. 1, Town of Johnston). This fund amounts to \$3,109.68, and is invested as follows:

City of Providence note payable on demand.....	\$1,000 00
Cash on hand.....	2,109 68
Total.....	<u>\$3,109 68</u>

Sinking fund to redeem bonds due in 1909 (School District No. 15, Town of Johnston). This fund amounts to \$12,672.36, and is invested as follows:

City of Providence bonds due in 1927 (highways).....	\$6,000 00
City of Providence note payable on demand.....	4,000 00
Cash on hand.....	2,672 36
Total.....	<u>\$12,672 36</u>

Sinking fund to redeem bonds due in 1924 (School District No. 15, Town of Johnston). This fund amounts to \$6,049.15, and is invested as follows:

City of Providence bonds due in 1927 (highways).....	\$2,000 00
City of Providence note payable on demand.....	1,000 00
Cash on hand.....	3,049 15
Total.....	<u>\$6,049 15</u>

Sinking fund to redeem bonds due in 1912 (Town of Johnston). This fund amounts to \$16,233.88, and is invested as follows:

City of Providence bond due in 1912 (highways).....	\$5,000 00
City of Providence bonds due in 1927 (highways).....	3,000 00
Town of Johnston bond due in 1912.....	1,000 00
City of Providence note payable on demand.....	4,000 00
Cash on hand.....	3,233 88
Total.....	<u>\$16,233 88</u>

Sinking fund to redeem bonds due in 1917 (Town of Johnston). This fund amounts to \$13,355.86, and is invested as follows:

City of Providence bonds due in 1912 (highways).....	\$3,000 00
City of Providence bonds due in 1929 (sewer).....	2,000 00
City of Providence bonds due in 1927 (highways).....	3,000 00
City of Providence bonds due in 1917 (Town of Johnston)	2,000 00
Cash on hand.....	3,355 86
Total.....	<u>\$13,355 86</u>

Sinking fund for redemption of City debt. This fund amounts to \$32,057.26, and is invested as follows:

City of Providence note payable on demand.....	\$8,000 00
Cash on hand.....	24,057 26
Total.....	<u>\$32,057 26</u>

The perpetual care fund of the North Burial Ground, which is held by the Commissioners in trust, amounts to \$183,900.19, and is invested as follows:

Ten shares Boston & Providence R. R. Co. (par value \$100)	\$1,000 00
Eight shares Blackstone Canal National Bank (par value \$25)	200 00
Five shares Providence & Worcester R. R. Co. (par value \$100)	500 00
City of Providence notes payable on demand.....	73,400 00
Cash on hand.....	108,800 19
Total	<u>\$183,900 19</u>

A personal examination of all the securities belonging to the sinking funds was made by the members of the board.

AUGUSTUS S. MILLER, *Mayor and Chairman.*

WALTER L. CLARKE, *City Treasurer and Treasurer.*

PHILIP S. CHASE, *City Auditor and Secretary.*

JOHN G. MASSIE, *Chairman of the Committee on Finance.*

CHARLES SYDNEY SMITH,

EDWARD D. PEARCE,

GEORGE W. PARKS,

Board of Commissioners of Sinking Funds.

PROVIDENCE, January 2, 1904.

ANNUAL REPORT
OF THE
COMMISSIONERS OF THE DEXTER DONATION.

[Presented December 19, 1903.]

**TO THE FREEMEN OF THE CITY OF PROVIDENCE IN TOWN MEETING
ASSEMBLED :**

The commissioners of the Dexter Donation present the following report of the property under their control for the year ending December 18, 1903 :

Received for rent and assessments.....	\$13,675 36
Interest received for same.....	3,696 66
Total.....	<u>\$17,372 02</u>

The commissioners have held four meetings during the year for business connected with the donation. At their meeting held December 18, 1903, they made a personal examination of the securities belonging to the donation, and found them to be correct and in accordance with the report of the treasurer.

The freemen are referred to the report of the mayor and aldermen, and the account of the city treasurer, to be submitted this day, as to the details of the management of the asylum and farm, and as to the financial condition of the donation.

Respectfully submitted, by order of the commissioners,

AUGUSTUS S. MILLER,
Mayor and Chairman.

ANNUAL REPORT
OF THE
BOARD OF ALDERMEN UPON THE DEXTER ASYLUM.

[Presented December 19, 1903.]

CITY OF PROVIDENCE,
EXECUTIVE DEPARTMENT, CITY HALL,
December 19, 1903.

TO THE FREEMEN OF THE CITY OF PROVIDENCE IN TOWN MEETING
ASSEMBLED:

By direction of the board of aldermen I present the following report of the Dexter Asylum and farm for the year ending November 30, 1903:

The total expense for the maintenance of the institution and farm for the year amounted to \$39,758.22, of which sum \$13,247.94 was received from the Dexter Donation Fund, and the balance of \$26,510.28 was made up as follows:

Products of farm.....	\$26,220 88
From sale of old iron bedsteads.....	39 00
Rags, bones, grease and junk.....	215 71
Interest on deposit.....	28 60
Total	\$26,510 28
Total from Dexter Donation.....	13,247 94
Total	\$39,758 22

Thirty-eight persons were admitted to the Asylum during the past year by the Overseer of the Poor, and two persons by birth; total, forty persons.

Twenty-three persons have been discharged from the Asylum by the Overseer of the Poor, and eighteen have died; total, 41.

The total number of inmates November 30, 1903, was 115, of which 69 were males and 46 females.

Average number of inmates for the year.....	116
Average number working for their board and the board of their children	6
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Total	122

Number of persons boarded at the institution during the year, 2.

The total amount of money expended for the repairs of the Asylum walls and buildings from October 1, 1902, to September 30, 1903, was \$1,994.27, which was paid from the appropriation made by the City Government for the year ending September 30, 1903.

During the past year about two hundred tons of ice were cut and stored for use.

Painting and varnishing has been done at the Asylum, the floors have been shellacked, and a new floor has been laid in the hallway of the hospital for females.

A new fence has been built on the south side of the west garden, the coal house has been shingled, the farm wall has been repaired and the front steps of the institution have been repointed.

There has also been a new copper water heater placed in the basement of the institution, and the coal house, ice house, cow barn, horse barn, and the institution have been painted. For the hot beds a new section of fence has been built, and general repairs on all the green-houses have been made, including a new set of tubes for one of the boilers.

There has been some concreting done and the driveways have been top-dressed.

Mr. and Mrs. John T. Brown, the Superintendent and Matron, have completed their fourteenth year of service in caring for the institution and its inmates, and by their efficiency and good judgment have maintained that confidence and esteem of the Board of Aldermen which they have enjoyed for so long a time, as well as the respect of those who have been placed in their charge.

Respectfully submitted to the Board of Aldermen,

AUGUSTUS S. MILLER,

Mayor.

EIGHTIETH ANNUAL REPORT
OF THE
DEXTER DONATION.

[Presented December 19, 1903.]

The City Treasurer presents the following report of the condition of the Dexter Donation :

REAL ESTATE.

1. The Asylum and the farm on which it is located, containing thirty-eight and seven-tenths acres, with a piece of thack near Central bridge, the whole under the care of the superintendent of the Asylum.
2. The Tavern Estate (so-called) on North Main street, leased to J. B. Barnaby Estate for forty years, from November 1, 1871, rent renewable at the expiration of each period of ten years.
3. The lot and building next south of the Tavern Estate on North Main street, leased to the Horace B. Knowles estate for forty years, from June 1, 1874, rent renewable at the expiration of each period of ten years.
4. The house and lot on Meeting street, leased to William V. Wallace for forty years, from June 1, 1871, rent renewable at the expiration of each period of ten years.
5. Four lots fronting on Cranston street, each 40 feet by 150 feet, also forty-eight lots fronting on Harrison and Hammond streets, each 50 feet by 100 feet, being part of the Dexter farm, all of which are leased.
6. The Dexter Training Field, containing nine and one-third acres, situated west of Dexter street, reserved and appropriated for that purpose by the will of the late Ebenezer Knight Dexter.
7. A strip of land, formerly a thack-right, on the north side of the Woonasquatucket river, which is lot No. 217 on assessors' plat 67, containing 15,344 square feet.
8. Land on Bacon street and on the south side of Doyle avenue, between Scott and Olney street, called the "Dwight lands," a greater portion of which is leased to sundry persons.
9. A lot on Westminster street, having a frontage of 78.7 feet, and containing 4,541 square feet, leased to James Hanley for forty years, from October 1, 1868, rent renewable at the expiration of each period of ten years.

SCHEDULE OF RENTS.

Description of Lots.	Rent per Annum.
Lot on Westminster street, leased to James Hanley....	\$1,000 00
Tavern Estate (so called), on North Main street, leased to J. B. Barnaby estate	800 00
House and lot on Meeting street, leased to William V. Wallace	350 00
Lot and building next south of the Tavern estate, containing 1,670 feet of land, leased to Horace B. Knowles estate for	525 00
Two lots on Cranston street, leased for each.....	160 00
One lot on Cranston street, leased for.....	170 00
One lot on Cranston street, leased for.....	158 00
Two lots on Harrison street, leased to the fire department, for each	25 00
Nine lots on Harrison street, leased for each.....	75 00
Thirteen lots on Harrison street, leased for each.....	70 00
One lot on Harrison street, leased to public schools for....	25 00
Three lots on Hammond street, leased to public schools for each	25 00
Nine lots on Hammond street, leased for each.....	65 00
Two lots on Hammond street, leased for each.....	80 00
Eight lots on Hammond street, leased for each.....	70 00
One lot on Hammond street, leased for.....	85 00
Four lots on Doyle avenue, leased for each.....	45 00
Five lots on Doyle avenue, leased for each.....	50 00
Ten lots on Doyle avenue, leased for each.....	53 00
Two lots on Doyle avenue, leased for each.....	54 00
Nine lots on Doyle avenue, leased for each.....	55 00
Three lots on Doyle avenue, leased for each.....	60 00
One lot on Doyle avenue, leased for.....	65 00
One lot on Doyle avenue, leased for.....	125 90
One lot on Doyle avenue, leased for.....	86 50
Two lots on Doyle avenue, leased for each.....	87 50
Two lots on Doyle avenue, leased for each.....	70 00
One lot on Doyle avenue, leased for.....	75 00
Two lots on Doyle avenue, leased for each.....	90 00
Four lots on Doyle avenue, leased to public schools for each	35 00
Three lots on Doyle avenue, leased for.....	160 00
One lot on Scott street, leased to Maggie P. Gray.....	112 00
Two lots on Bacon street, leased for each.....	50 00
One lot on North Main and Bacon streets, leased for.....	125 00

In addition to the above rents a sum equal to the annual city tax is paid upon the respective estates by the lessees, except those leased to the city, which is added to the rent.

DEXTER DONATION FUND.

Schedule of funds in hand, December 17, 1903, consistng of the following City of Providence bonds, etc.:

City of Providence sewer bonds due May 1, 1931, interest 3 per cent.....	\$75,000 00
On deposit in the Providence Institution for Savings....	2,231 38
	<hr/>
	\$77,231 38

ABSTRACT OF THE ACCOUNT OF THE DEXTER DONATION WITH THE CITY
OF PROVIDENCE, WALTER L. CLARKE, CITY TREASURER.

CR.

Dec. 17, 1902. By balance on hand from old account..	\$30,614 62
Dec. 17, 1903. By amount received from rents and assess- ments	13,675 36
Dec. 17, 1903. By amount received from interest.....	3,696 66
	<hr/>
	\$56,986 64

DR.

Dec. 23, 1902. To cash paid per order board of commis- sioners, referees fees.....	\$30 00
Jan. 19, 1903. To cash paid per order board of commis- sioners, printing, Snow & Farnham.....	5 48
Feb. 18, 1903. To cash paid per order of board of commis- sioners, ringing bell for town meeting.....	3 00
Feb. 20, 1903. To cash paid per order of board of Commis- sioners, printing, Snow & Farnham.....	1 24
March 5, 1903. To cash paid per order of board of com- missioners, Providence Journal Co.....	7 27
March 9, 1903. To cash paid per order board of alder- men, support of poor.....	6,583 86
June 8, 1903. To cash paid per order board of alder- men, support of poor.....	1,252 00
Sept. 14, 1903. To cash paid per order board of alder- men, support of poor.....	1,686 56
	<hr/>
Amount carried forward.....	\$9,569 50

Amount brought forward.....	\$9,569 50
Sept. 19, 1903. To cash paid per order board of commis- sioners, printing, Snow & Farnham.....	3 28
Dec. 14, 1903. To cash paid per order board of alder- men, support of poor.....	3,337 93
	<hr/>
	\$12,910 71
Dec. 17, 1903. By balance carried to new account.....	44,075 93
	<hr/>
	\$56,986 64

WALTER L. CLARKE,

City Treasurer.

PROVIDENCE, December 18, 1903.

PROVIDENCE, December 18, 1903.

This certifies that I have this day examined cash accounts of the Dexter Donation in the office of the City Treasurer, from December 17, 1902, to December 17, 1903, inclusive, and compared the vouchers therewith and find them to agree, showing a cash balance of \$44,075.93 on hand at the latter date, which balance I have verified.

All rents due for the year ending December 17, 1903, have been collected and properly credited, with the exception of the following amounts due from the following persons:

Caroline E. Mathewson.....	\$32 50
William A. Spink Estate.....	35 00
	<hr/>
	\$67 50

All assessments for the city tax of 1903 have also been collected and properly credited, with the exception of the following amounts, due from the following persons:

Caroline E. Mathewson.....	\$41 58
William A. Spink Estate.....	41 58
	<hr/>
	\$83 16

PHILIP S. CHASE,

City Auditor.

REPORT OF THE SUPERINTENDENT OF THE DEXTER ASYLUM.

[Presented at the Town Meeting, December 19, 1903.]

TO HIS HONOR THE MAYOR AND THE BOARD OF ALDERMEN:

The Superintendent of the Dexter Asylum presents a report of the receipts and expenditures of that institution, also a report of the expense and income of the farm for the year ending November 30, 1903:

There have been admitted to the Dexter Asylum during the past year, by the Overseer of the Poor, 38 persons; by birth, 2 persons; total, 40.

There have been discharged from the Dexter Asylum 23 persons, and 18 persons have died; total, 41.

Total number of inmates November 30, 1903, was 115, of which 69 were males and 46 females.

Average number of inmates for the year, 116; average number working for their board and the board of their children, including children, 3; total, 122.

Number of persons boarded at State Institution during the past year, 2.

The gross expenditures of the institution and farm during the past year were as follows:

Subsistence	\$7,380 26
Agricultural department	6,213 68
Bedding, clothing, boots and shoes.....	1,107 37
Medical department	566 42
Fuel and light.....	4,710 70
Furniture and utensils.....	289 86
Salaries	17,606 23
Repairs, stock and material.....	684 02
Miscellaneous	323 89
Water	400 00
Board of inmates at State Institutions.....	312 86
Concreting and repairing driveways.....	162 93
Total.....	\$30,758 22

NET RECEIPTS.

From farm produce	\$26,220 88
" rags, bones, grease, etc.....	215 71
" old iron bedsteads sold.....	39 00
" old harness sold.....	6 00
" interest on deposit.....	28 69
Total	\$26,510 28
From Dexter Donation Fund.....	13,247 94
Total	\$39,758 22

DEXTER ASYLUM FARM, IN ACCOUNT WITH THE DEXTER DONATION FUND.

FARM, DR.

To inventory of stock, farming utensils, etc., November 30, 1902.....	\$12,694 85
To cash paid for manure and fertilizer..	967 00
hay and grain.....	3,989 18
seed and tools.....	637 92
cows	96 00
boxes	56 00
horse shoeing	195 77
wagons and repairs	258 81
harnesses and repairs ..	26 07
trees	19 45
lumber	137 21
water	250 00
concreting and dressing driveways	162 93
To wages, including one-half of superin- tendent's salary	9,401 44
board of fattening lands... ..	1,975 00
cash paid for coal.....	2,016 00
	\$32,883 63

FARM, CR.

By inventory of stock, farming utensils, etc.,		
November 30, 1903.....	\$12,738	15
cash from farm products.....	26,220	88
milk, 6,843 gallons at 16 cents per gallon	1,094	88
one man for chores, with horse.....	150	00
By one-half amount paid for manure and		
fertilizer	483	50
vegetables, eggs and poultry, etc.....	1,212	81
labor of men and teams for improve-		
ments	475	00
	<hr/>	
Total income	\$42,375	22
Total expenditures	32,883	33
	<hr/>	
Excess of income over expenditures.	\$9,491	59

Total amount of money expended for the repairs of the Dexter Asylum walls and buildings, from October 1, 1902, to September 30, 1903, was \$1,994.27, which was paid from the appropriation made by the city government for the year ending September 30, 1903, as follows:

Thomas W. Weathered's Sons, greenhouse repairs.....	\$4	00
Ira Winsor & Co., pipe and fittings.....	280	04
Manville Covering Co., covering pipe.....	2	00
Allison K. Wilbur, carpenter's labor.....	398	75
Hugh H. Coffey, painter's labor.....	104	75
The John T. Cottrell Co., lumber.....	85	56
George D. Lansing & Son, lumber.....	181	26
W. Congdon & Son, hardware.....	13	75
Barker, Chadsey & Co., hardware.....	3	19
Providence Ventilator Co., ventilator apparatus.....	19	50
Excelsior Varnish Co., varnish.....	20	16
The James B. Manchester Co., copper water heater.....	109	65
Oliver Johnson & Co., paints, oils, etc.....	167	11
J. Norton, plaster work.....	9	60
George M. Freeborn, painting institution.....	536	00
New England Gas Regulator Co., gas regulator.....	40	00
Fred W. Morse, repair of tin roof.....	18	95

\$1,994 27

During the past year about two hundred tons of ice were cut and stored for use.

A new floor has been laid in the hallway of the female hospital and the floors of the institution have been shellacked; painting and varnishing also have been done in the institution.

The farm wall has been repaired, and the front steps of the institution have been repointed.

A new fence has been built on the south side of the west garden, and the coal house has been shingled.

The institution, coal house, ice house, cow barn, and horse barn have been painted.

A new copper water heater has been placed in the basement of the institution.

The driveways have been top-dressed and some concreting has been done.

A new section of fence for the hot beds has been built, and general repairs on all the greenhouses have been made, including a new set of tubes for one of the boilers.

The following is a memorandum of farm products sold from the Dexter Asylum, from November 30, 1902, to December 1, 1903:

Beans	\$418 86
Beets	2,160 18
Beet green	134 10
Carrots	208 40
Celery	1,547 30
Celery plants	75
Cream	396 25
Calves	38 75
Cows	130 00
Cucumbers	3,868 59
Corn	367 40
Cow keeping	138 00
Cabbage	701 28
Fertilizer	7 00
Horse keeping	4 25
Lettuce	9,150 79
Lettuce plants	24 85
Mats	3 00
Milk	2,741 41
Onions	561 27
Parsnips	131 88
Amount carried forward.....	<u>22,534 31</u>

Amount brought forward.....	22,534 31
Parsley	25 85
Pears	525 72
Peas	26 21
Pigeon manure	37 40
Potatoes	141 66
Rareripes	419 56
Radishes	486 04
Rhubarb	243 86
Spinach	327 35
Swine	687 08
Squash	410 13
Stone	10 00
Tomatoes	313 87
Tomato plants	31 89
<hr/>	
Total	\$26,220 88

Respectfully submitted,

JOHN T. BROWN,

Superintendent.

1904.]

CITY DOCUMENT.

[No. 2.]

FIFTY-SEVENTH ANNUAL REPORT
OF THE
CITY AUDITOR
SHOWING THE
RECEIPTS AND EXPENDITURES
OF THE CITY OF PROVIDENCE,
FOR THE YEAR ENDING SEPTEMBER 30,
1903.

WITH A SCHEDULE OF THE CITY PROPERTY.



The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
63 Washington Street.
1903.

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REPORT.

CITY AUDITOR'S OFFICE,
PROVIDENCE, January 4, 1904.

TO THE HONORABLE THE CITY COUNCIL:

The undersigned, complying with the requirements of the City Ordinances, presents the fifty-seventh annual statement of the receipts and expenditures of the City of Providence for the fiscal year beginning on the first day of October, 1902, and ending on the 30th day of September, 1903, together with a schedule of the city property and the leases thereof, also a summary of inventories of the personal property belonging to the city.

Balance in the Treasury September 30, 1902.....	\$274,765 37
The receipts from all sources from October 1, 1902, to September 30, 1903, inclusive, were:	
From city tax of 1902.....	\$3,138,765 56
From loans	1,054,920 06
From other sources.....	1,556,530 53
	<u>5,750,216 15</u>
Total receipts	\$6,024,981 52

The payments during the fiscal year, as per vouchers on file in the City Auditor's office, were:

For annual appropriation accounts, other than interest, sinking funds and state tax	\$2,958,529 51
For interest and sinking funds.....	1,179,804 82
For state tax	311,441 06
For special appropriation accounts.....	710,447 94
For loan account	<u>557,223 91</u>
Total payments	5,717,447 84
Balance in the Treasury September 30, 1903	<u>\$307,533 68</u>

The balance in the Treasury September 30, 1903, amounting to \$307,533.68, is held subject to drafts upon the following accounts, viz.:

Anna H. Man Trust Fund.....	\$28 08
Anna H. Man Trust Fund, Income.....	3,462 37
*Blackstone Park, Land Account.....	1,129 13
Central Fire Station, etc.....	472 85
Charles H. Smith Trust Fund.....	1,053 41
*Chattlet Street Bridge.....	5,701 08
Daniel Wanton Lyman Bequest for Elisha Dyer Monument	140 00
Davis Park, Improvement Loan Account.....	1,076 86
Dog Licenses	1,635 00
Estate of Harriet Howard.....	23 64
Estate of Frederick Nitch.....	261 40
Estate of Thomas O'Gorman.....	139 95
Estate of Janet W. Pitt.....	1,121 23
Estate of William Simms.....	210 39
Estate of Lillian A. Taylor.....	12 89
Highways, Special Account.....	3,927 39
Mary Swift Bragunn Fund.....	592 48
Mount Pleasant Fire Station.....	16,789 44
North Burial Ground.....	4,320 14
North Burial Ground, Sinking Fund.....	5,005 79
Public Parks, General Account.....	26 08
Public Parks, Roger Williams Park.....	17,964 90
Public Works, Sidewalks and Curbing.....	13,764 30
*Receiving Tomb, North Burial Ground.....	1,157 98
*Refurnishing Recorder's Department.....	109 98
Relief Fund for Firemen and Policemen.....	903 12
Reservation Fund.....	2,148 00
Reserved Fund.....	57,845 52
Roger Williams Park, Land Account.....	6,214 10
Roger Williams Park, Receipt Account.....	205 58
Rone Estate.....	16,148 44
*School Houses and Lots, Loan Account.....	8,084 73
Senator Anthony Prize Fund.....	3,005 63
Sewer Assessments.....	121,056 99
*Sewer Construction.....	4,201 50
State of Rhode Island, Proportion due State for Licenses	1,283 25
Tillinghast Donation.....	182 38
*Water Works, Construction.....	957 05
*Weybosset Bridge and River Walls.....	5,170 33
	<hr/>
	\$307,533 68

* See statements on pages 3 and 4 of loans authorized but not issued.

Statement of loans authorized by the City Council but not issued.

BLACKSTONE PARK, LAND ACCOUNT.

Cash on hand.....	\$1,129 13
Loan authorized by City Council resolution No. 60, approved March 3, 1902, but not issued.....	8,000 00
Unexpended appropriation as per balance sheet.....	<u>\$9,129 13</u>

CHATTLET STREET BRIDGE.

Cash on hand.....	\$5,701 08
Loan authorized by City Council resolution No. 220, approved June 20, 1902, but not issued.....	7,000 00
Unexpended appropriation as per balance sheet.....	<u>\$12,701 08</u>

NEUTACONKANUT HILL PARK.

Loan authorized by City Council resolution No. 417, approved December 31, 1902, but not issued.....	\$44,000 00
Unexpended appropriation as per balance sheet.....	<u>\$44,000 00</u>

NEW STREET, MARKET SQUARE TO PROSPECT STREET.

Loan authorized by City Council resolution No. 378, approved September 25, 1900, but not issued.....	\$200,000 00
Unexpended appropriation as per balance sheet.....	<u>\$200,000 00</u>

RECEIVING TOMB, NORTH BURIAL GROUND.

Cash on hand.....	\$1,157 98
Loan authorized by City Council resolution No. 120, approved April 18, 1902, but not issued.....	15,000 00
Unexpended appropriation as per balance sheet.....	<u>\$16,157 98</u>

REFURNISHING RECORDER'S DEPARTMENT.

Cash on hand.....	\$100 98
Loan authorized by City Council resolution No. 99, approved April 8, 1902, but not issued.....	19,000 00
Unexpended appropriation as per balance sheet.....	<u>\$19,100 98</u>

SCHOOL HOUSES AND LOTS, LOAN ACCOUNT.

Cash on hand.....	\$8,084 73
Loans authorized by Chapter 821 of the city ordinances, approved March 10, 1898, and resolution No. 297, approved August 6, 1901, but not issued.....	72,500 00
Unexpended appropriation as per balance sheet.....	<u>\$80,584 73</u>

SEWER CONSTRUCTION.

Cash on hand.....	\$4,201 50
Loans authorized by City Council resolutions No. 100, ap- proved April 10, 1900, No. 168, approved May 5, 1903, and No. 323, approved Sept. 18, 1903, but not issued	161,000 00
Unexpended appropriation as per balance sheet.....	<u>\$165,201 50</u>

WATER WORKS CONSTRUCTION.

Cash on hand.....	\$957 05
Loan authorized by Chapter 132 of the city ordinances, approved May 6, 1902, but not issued.....	105,000 00
Unexpended appropriation as per balance sheet.....	<u>\$105,957 05</u>

WEYBOSSET BRIDGE AND RIVER WALLS.

Cash on hand.....	\$5,170 33
Loan authorized by City Council resolution No. 411, ap- proved December 10, 1902, but not issued.....	120,000 00
Unexpended appropriation as per balance sheet.....	<u>\$125,170 33</u>

RECEIPTS.

The receipts from taxes and other sources during the year, available for the ordinary expenses of the city as authorized by the annual appropriation resolution and its amendments, are entered under "Ordinary Receipts;" the amounts entered under "Extraordinary Receipts" were not available for such purpose.

ACCOUNTS.	Ordinary Receipts.	Extraordinary Receipts.	Total.
Anna H. Man Trust Fund.....		\$135,060 95	\$135,060 95
Anna H. Man Trust Fund Income	\$7,554 66		7,554 66
Board of Commissioners of Sinking Funds.....	5,427 16		5,427 16
Charles H. Smith Trust Fund.....		35 91	35 91
City Licenses.....	31,094 25	a 5,375 75	36,470 00
City Tax, 1902.....	3,138,765 56		3,138,765 56
Contingencies.....	15,320 80		15,320 80
Dog Licenses.....	11,956 00		11,956 00
Fire Department.....	108 00		108 00
Fire and Police Loan due Nov. 1, 1902.....		258,000 00	258,000 00
Interest.....	50,879 97		50,879 97
Liquor Licenses.....	181,760 00	b 60,350 00	242,110 00
Loan Account.....		796,920 06	796,920 06
Mary Swift Bragunn Fund.....		20 20	20 20
Miscellaneous.....	161,092 32		161,092 32
North Burial Ground.....		26,449 31	26,449 31
North Burial Ground Sinking Fund.....		473 85	473 85
Police Department.....	12,903 46		12,903 46
Public Buildings.....	12 00		12 00
Public Parks, General Account...	146 96		146 96
Amounts carried forward	\$3,617,021 14	\$1,282,686 03	\$4,899,707 17

a. Has been or is to be paid to the State, see Chapter 103, General Laws of Rhode Island.

b. Has been or is to be paid to the State, see Chapter 102, General Laws of Rhode Island.

ACCOUNTS.	Ordinary Receipts.	Extraordinary Receipts.	Total.
Amounts brought forward	\$3,617,021 14	\$1,282,686 03	\$4,899,707 17
Public Parks, Roger Williams Park.....	8,956 31		8,956 31
Public Schools.....	62,308 56		62,308 56
Public Works, Bridges.....	220 66		220 66
Highways.....	21,953 33		21,953 33
Lights.....	170 24		170 24
Sewer Maintenance	2,006 21		2,006 21
Sidewalks and Curbing.....	24,403 66		24,403 66
Water Works Maintenance.....	31,903 57		31,903 57
Rents.....	5,076 28		5,076 28
Roger Williams Park, Receipt Account.....		984 58	984 58
Senator Anthony Prize Fund.....		106 25	106 25
Sewer Assessments.....	49,913 94		49,913 94
Sewer Construction.....		2,000 50	2,000 50
Sinking Fund, Water Loan, due July 1, 1906.....	260,507 58		260,507 58
Streets and Sewers.....	5,062 60		5,062 60
Support of the Poor.....	12,372 73		12,372 73
Tax Department.....	452 50		452 50
Treasury Department.....	5,905 20		5,905 20
Water Rents, less \$260,507.58, carried to sinking funds.....	356,204 28		356,204 28
Total.....	\$4,464,438 79	\$1,285,777 36	\$5,750,216 15

c In addition to this amount \$11,572.20 was transferred from Dog Licenses..

PAYMENTS.

The amounts entered under "Ordinary Expenses" show the expenditures under the annual appropriation resolution and its amendments; the column entitled "Extraordinary Expenses" shows all other expenditures:

ACCOUNTS.	Ordinary Expenditures.	Extraordinary Expenditures.	Total.
Anna H. Man Trust Fund.....		\$137,900 00	\$137,900 00
Anna H. Man Trust Fund In- come.....	\$796 66		796 66
Asylum Walls and Buildings....	1,994 27		1,994 27
Auditing Department.....	7,256 46		7,256 46
Blackstone Park Land Account....		42,482 25	42,482 25
Board of Commissioners of Sink- ing Funds.....	16,163 80		16,163 80
Central Fire Station, etc.....		40,766 28	40,766 28
Chattlet Street Bridge.....		54,435 72	54,435 72
City Clerk's Department.....	7,662 36		7,662 36
City Council.....	19,994 91		19,994 91
City Hall.....	26,489 32		26,489 32
Clerk of Common Council and Clerk of Committees.....	4,518 78		4,518 78
Contingencies.....	61,565 97		61,565 97
Davis Park Improvement Loan Account.....		436 23	436 23
Dog Licenses.....		142 60	142 60
Elections.....	24,232 68		24,232 68
Executive Department.....	7,252 59		7,252 59
Fire Department.....	360,000 00		360,000 00
Harbor.....	5,408 30		5,408 30
Health Department.....	53,497 85		53,497 85
Highways, Special Account.....		5,096 38	5,096 38
Amounts carried forward.....	\$596,833 95	\$281,259 46	\$878,093 41

ACCOUNTS.	Ordinary Expenditures.	Extraordinary Expenditures.	Total.
Amounts brought forward.....	\$596,833 95	\$281,259 46	\$878,093 41
Inspector of Buildings.....	4,149 65		4,149 65
Inspector of Milk.....	6,040 17		6,040 17
Inspector of Plumbing.....	5,675 00		5,675 00
Interest.....	26,135 94		26,135 94
Interest on Loans.....	416,622 50		416,622 50
Interest on Water Loans.....	225,265 00		225,265 00
Law Department.....	14,947 89		14,947 89
Loan Account.....		554,223 91	554,223 91
Mount Pleasant Fire Station.....		10 56	10 56
Municipal Court.....	6,685 96		6,685 96
North Burial Ground.....		25,238 25	25,238 25
Olneyville Free Library Association.....	1,000 00		1,000 00
Police Department.....	389,999 73		389,999 73
Printing.....	5,949 67		5,949 67
Providence Lying-in Hospital....	2,000 00		2,000 00
Providence Public Library.....	20,000 00		20,000 00
Public Buildings.....	74,998 57		74,998 57
Public Parks, General Account...	8,220 88		8,220 88
Public Parks, Roger Williams Park.....	40,042 56		40,042 56
Public Schools.....	688,880 76		688,880 76
Public Works, Bridges.....	27,942 04		27,942 04
City Engineer's Department.....	47,577 31		47,577 31
Highways.....	301,728 72		301,728 72
Lights.....	288,214 58		288,214 58
Office.....	22,674 75		22,674 75
Amounts carried forward.....	\$3,221,585 63	\$860,732 18	\$4,082,317 81

ACCOUNTS.	Ordinary Expenditures.	Extraordinary Expenditures.	Total.
Amounts brought forward.....	\$3,221,585 63	\$860,732 18	\$4,082,317 81
Public Works, Sewer Maintenance.....	116,976 98		116,976 98
Sidewalks and Curbing.....	19,476 55		19,476 55
Water Works Maintenance...	162,156 74		162,156 74
Receiving Tomb, North Burial Ground.....	13,842 02		13,842 02
Record Commissioners.....	966 68		966 68
Recorder of Deeds.....	8,000 00		8,000 00
Refurnishing Recorder's Department.....		565 02	565 02
Relief Fund for Firemen and Policemen.....	2,096 88		2,096 88
Rhode Island Hospital.....	10,000 00		10,000 00
School Houses and Lots, Loan Account.....		5,544 22	5,544 22
Sealer of Weights and Measures..	3,247 04		3,247 04
Senator Anthony Prize Fund.....		110 00	110 00
Sewer Assessments.....	55 77		55 77
Sewer Construction.....		266,781 53	266,781 53
Sinking Funds.....	235,110 00		235,110 00
Sinking Fund, Water Loan, due July 1, 1906.....	260,507 58		260,507 58
State of Rhode Island (Licenses).....		65,826 50	65,826 50
State Tax.....	311,441 66		311,441 66
Support of Poor.....	34,617 59		34,617 59
Tax Department.....	19,916 31		19,916 31
Treasury Department.....	29,778 56		29,778 56
Water Works Construction.....		59,624 26	59,624 26
Water Works Loan, due July 1, 1900.....		3,000 00	3,000 00
Weybosset Bridge and River Walls.....		5,488 14	5,488 14
	\$4,449,775 99	\$1,267,671 85	\$5,717,447 84

CITY DEBT.

The condition of the City Debt and Sinking Funds September 30, 1903, is shown by the following statement:

CLASS OF BONDS.	Rate per centum of interest.	When Due.	Amount.	Sinking Fund September 30, 1903.	Increase in Sinking Fund during 1902-1903.
Public Improvement....	3	May 1, 1929	\$84,000 00	\$7,762 66	\$1,933 78
Public Improvement....	3½	May 1, 1937	640,000 00	54,601 39	9,632 47
Water.	5	July 1, 1906	1,500,000 00	*1,296,255 92	*288,323 01
Water.	3	July 1, 1906	90,000 00		
Water.	3½	Sept. 1, 1916	483,000 00	110,631 17	3,989 98
Water.	4	April 1, 1923	817,000 00	67,195 29	2,615 67
Water.	4	June 1, 1926	200,000 00	32,582 16	1,229 19
Water.	4	April 1, 1927	250,000 00	38,551 67	1,468 83
Water Refunding.	3	May 1, 1930	2,666,000 00	3,383 07	128 01
Davis Estate.	4	July 1, 1909	75,000 00	46,290 78	4,327 39
Highway.	3	Jan. 1, 1912	180,000 00	13,218 05	13,218 05
Highway.	4	May 1, 1924	1,200,000 00	450,546 00	39,850 05
Highway.	4	April 1, 1927	500,000 00	157,744 43	15,070 26
Highway.	3	May 1, 1930	300,000 00	19,278 19	6,481 97
School.	4	July 1, 1911	300,000 00	200,342 03	20,001 90
School.	4	May 1, 1922	300,000 00	102,438 92	8,375 43
School.	4	April 1, 1927	500,000 00	162,603 86	14,999 87
School.	3½	May 1, 1929	350,000 00	63,780 37	9,029 10
Sewer.	4	July 1, 1921	1,125,000 00	385,264 91	37,961 88
Sewer.	4	March 1, 1922	500,000 00	196,817 01	16,279 34
Sewer.	4	April 1, 1923	500,000 00	157,345 91	14,972 81
Sewer.	4	May 1, 1925	800,000 00	257,923 41	24,427 58
Sewer.	4	June 1, 1926	500,000 00	159,904 86	15,346 58
Sewer.	4	April 1, 1927	300,000 00	89,074 23	8,971 17
Sewer.	3½	April 1, 1928	200,000 00	36,461 33	5,221 71
Sewer.	3	May 1, 1929	250,000 00	21,294 11	5,656 17
Sewer.	3	May 1, 1930	300,000 00	18,618 55	6,520 19
Sewer.	3	May 1, 1931	300,000 00	12,412 94	6,279 08
Park.	4	March 1, 1922	500,000 00	192,175 59	16,501 18
Amounts carried forward.			\$15,680,000 00	\$4,350,438 81	\$599,012 65

* Includes \$260,507.58 excess of water rents for year ending September 30, 1903.

CLAIM OF BONDS.	Rate per centum of interest.	When Due.	Amount.	Sinking Fund September 30, 1903.	Increase in Sinking Fund dur- ing 1902- 1903.
Amounts brought forward.....			\$15,680,000 00	\$4,350,438 81	\$599,012 65
Park.....	3½	May 1, 1947	674,000 00	37,900 53	6,813 96
Weybosset Bridge....	3½	May 1, 1929	270,000 00	48,918 76	7,159 87
Johnston Annexation..	3	Sept. 1, 1939	166,000 00	9,610 99	2,476 05
Fire and Police.....	3½	Nov. 1, 1932	258,000 00	5,271 34	5,271 34
Issued by the Town of Johnston; appor- tioned to City of Providence by Com- mission under Chapter 562, Public Laws of R. I., passed May 6, 1888, viz.:					
Town.....	4	Feb. 1, 1912	50,000 00	13,351 67	3,149 03
Town.....	4	Feb. 1, 1917	59,000 00	10,959 81	2,404 61
School District No. 1..	4	Nov. 1, 1927	17,000 00	2,728 64	429 43
School District No. 15.	4	Oct. 1, 1909	25,000 00	11,153 49	1,674 75
School District No. 15.	4	Oct. 1, 1924	30,000 00	5,364 05	782 09
Received under Chapter 112, city ordi- nances, not apportioned.....				*31,784 40	16,599 49
Total bonded debt | ..... | .....			\$17,229,000 00		
FLOATING DEBT, issued for following ac- counts:					
Blackstone Park, Land Ac- count.....		\$43,000 00			
Casino, Roger Williams Park		9,199 23			
Chattlet Street Bridge.....		63,000 00			
Receiving Tomb, North Burial Ground		15,000 00			
Refurnishing Recorder's De- partment.....		1,000 00			
School Houses and Lots.....		202,500 00			
Sewer Construction.....		514,000 00			
State Tax.....		155,720 83			
Water Works.....		55,000 00			
Weybosset Bridge and River Walls.....		50,000 00	1,108,420 06		
Total Debt and Sinking Funds.....			\$18,337,420 06	\$4,527,482 49	\$645,833 27

* Includes \$16,163.80, balances, etc., for year ending September 30, 1903.

CLASSIFICATION

of the Gross Debt, Sinking Funds, and Net Debt, September 30, 1903.

CLASS.	Gross Debt.	Sinking Fund.	Net Debt.
Public Improvement..	Funded \$724,000 00	\$82,364 05	\$661,635 95
	Funded.. \$6,006,000 00		
Water.....	Floating. 55,000 00		
	6,061,000 00	*1,554,599 28	4,506,400 72
Davis Estate.....	Funded..... 75,000 00	46,230 78	28,769 22
Highways.....	Funded..... 2,150,000 00	640,786 67	1,509,213 33
Schools.....	Funded.. \$1,450,000 00		
	Floating. 202,500 00		
	1,652,500 00	519,165 18	1,133,334 82
Sewers.....	Funded.. \$4,775,000 00		
	Floating. 514,000 00		
	5,289,000 00	1,335,117 26	3,953,882 74
Parks.....	Funded.. \$1,174,000 00		
	Floating. 52,199 23		
	1,226,199 23	230,076 12	996,123 11
Weybosset Bridge....	Funded.. \$270,000 00		
	Floating. 50,000 00		
	320,000 00	48,918 76	271,081 24
Johnston Annexation.	Funded..... 166,000 00	9,610 99	156,389 01
Johnston Assumed...	Funded..... 181,000 00	43,557 66	137,442 34
Fire and Police.....	Funded..... 258,000 00	5,271 34	252,728 66
State Tax.....	Floating..... 155,720 83		155,720 83
Chattlet Street Bridge	Floating..... 63,000 00		63,000 00
Receiving Tomb North Burial Ground.....	Floating..... 15,000 00		15,000 00
Refurnishing Re- corder's Dept.....	Floating..... 1,000 00		1,000 00
	\$18,337,420 06	\$4,485,698 09	\$13,841,721 97
Amount received under chapter 112 of the City Ordinances, approved September 11, 1901, not apportioned to any fund.....		131,784 40	31,784 40
Net Debt, September 30, 1903.....		\$4,527,482 49	\$13,809,937 57

* Includes \$260,567.58, excess of water rates for year ending September 30, 1903.

+ Includes \$16,163.80, balances, etc., for year ending September 30, 1903.

CHANGES IN THE FUNDED DEBT DURING THE YEAR.

Loans issued:

Fire and Police Loan, due November 1, 1932.....	\$258,000 00
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Loans paid:

Water Loan, due July 1, 1900.....	3,000 00
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Increase in the gross Funded Debt during the year.....	\$255,000 00
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CHANGES IN THE FLOATING DEBT DURING THE YEAR.

Additional Notes issued:

For Sewer Construction.....	\$417,000 00
For State Tax.....	155,720 83
For Schoolhouses and Lots, Loan Account	35,000 00
For Casino, Roger Williams Park.....	9,199 23
For Chattlet Street Bridge.....	57,000 00
For Blackstone Park, Land Account	43,000 00
For Receiving Tomb, North Burial	
Ground	15,000 00
For Water Works.....	55,000 00
For Weybosset Bridge, etc.....	10,000 00
	\$793,920 06

Notes paid during the year:

Issued for Casino, Roger Williams Park	\$10,803 08
Issued for State Tax.....	155,720 83
Issued for Fire and Police Stations....	212,700 00
Issued for Schoolhouses and Lots, Loan	
Account	25,000 00
Issued for Sewer Construction.....	150,000 00
	554,223 91

Increase in Floating Debt during the year..	\$242,396 15
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COMPARATIVE STATEMENT

of Gross Debt, Sinking Funds and Net Debt, 1902-1903,
with 1901-1902.

GROSS DEBT.

	September 30, 1903.	September 30, 1902.	Increase.	Decrease.
Bonded water debt	\$6,006,000 00	\$6,009,000 00	.....	\$3,000 00
Floating water debt	55,000 00	.....	\$55,000 00	.....
Bonded debt other than water.....	11,223,000 00	10,965,000 00	258,000 00	.....
Floating debt other than water.....	1,053,420 06	865,723 91	187,696 15	.....
Total gross debt	\$18,337,420 06	\$17,839,723 91	\$500,696 15	\$3,000 00

SINKING FUND.

Water debt.....	\$1,554,599 28	\$1,256,844 59	\$297,754 69	.....
Debt other than water.....	2,972,883 21	2,624,804 63	348,078 58	.....
Total sinking funds.....	\$4,527,482 49	\$3,881,649 22	\$645,833 27	.....

NET DEBT.

Water debt.....	\$4,506,400 72	\$4,732,155 41	.....	\$245,754 69
Debt other than water.....	9,303,536 85	9,205,919 28	\$97,617 57	.....
Total net debt.....	\$13,809,937 57	\$13,938,074 69	.....	\$148,137 12
Decrease in net water debt. ....	.....	.....	.....	\$245,754 69
Increase in net debt other than water.....	.....	.....	\$97,617 57	.....

The following loans have been authorized by the city council, but have not been issued, and are not included in the city debt, viz.:

[See pages 3 and 4 for statement in detail.]

Blackstone Park, Land Account.....	\$8,000 00
Chattlet Street Bridge.....	7,000 00
Neutaconkanut Hill Park.....	44,000 00
New Street, Market Square to Prospect Street.....	200,000 00
Receiving Tomb, North Burial Ground.....	15,000 00
Refurnishing Recorder's Department.....	19,000 00
School Houses and Lots, Loan Account.....	72,500 00
Sewer Construction.....	161,000 00
Water Works	105,000 00
Weybosset Bridge and River Walls.....	120,000 00

WATER LOANS.

Statement of loans authorized, amounts issued, etc.:

Authority of General Assembly.	Amount.	Loans Issued.	Loans Outstanding	Expended.	Unex- pended.
Chapter 640, January Session, 1886.....	\$2,000,000 00	\$2,000,000 00	.....	\$2,000,000 00	.....
Chapter 784, January Session, 1869.....	2,000,000 00	2,000,000 00	.....	2,000,000 00	.....
Chapter 430, January Session, 1875.....	1,000,000 00	1,000,000 00	\$1,000,000 00	1,000,000 00	.....
Chapter 528, January Session, 1876.....	1,000,000 00	1,000,000 00	1,000,000 00	1,000,000 00	.....
Chapter 577, January Session, 1886.....	500,000 00	500,000 00	500,000 00	500,000 00	.....
Chapter 945, January Session, 1891.....	500,000 00	500,000 00	500,000 00	500,000 00	.....
Chapter 1226, Janu- ary Session, 1893..	500,000 00	340,000 00 155,000 00	340,000 00 155,000 00	394,042 95	\$957 05
Chapter 764, January Session, 1900.....	*2,666,000 00	*2,666,000 00	*2,666,000 00	*2,666,000 00	.....
	\$10,106,000 00	\$10,061,000 00	\$6,061,000 00	\$10,060,042 95	\$957 05

* Refunding portion of loans issued under Chapters 640 and 784.

† In floating debt.

Total loans authorized.....	\$10,106,000 00
Less amount paid.....	4,000,000 00
	\$6,106,000 00
Bonds outstanding	\$6,006,000 00
Notes outstanding.....	55,000 00
	\$6,061,000 00
Amount authorized and not hired.....	\$105,000 00
Loans authorized by City Council but not issued (see statement on page 4).....	105,000 00

PROVIDENCE WATER WORKS.

The following is a statement of the receipts and expenses of the Providence Water Works to September 30, 1890, and during each fiscal year since that date; also the amount paid to Commissioners of Sinking Funds as excess of receipts over the cost of maintenance and interest:

Year.	Cost of Construction.	Cost of Maintenance.	Interest on Temporary Loans.	Net Floating Debt Each Year.	Interest on Bonds.	Bonds Issued.	Receipts for Water Rents.	Sale of Material, etc. Main'ten'g Acct.	Sale of Material, etc. Construction Acct.	Discount and Premium on Bonds.	Paid Sinking Funds excess of receipts over maintenance and interest.
To 1890	\$5,889,370 15	\$1,191,659 34	\$392,009 97	.....	\$4,911,826 97	\$85,983,000 00	\$4,712,495 77	\$585,685 62	\$9,749 09	\$24,738 97 Dr.	\$37,517 17
1891	175,386 12	80,288 36	20,461 81	\$570,000 00	300,105 00	.....	401,948 34	20,748 45	2,229 11	.....	21,841 02
1892	120,305 25	94,782 45	27,493 76	691,500 00	300,105 00	.....	410,397 51	26,816 12	4,275 74	.....	24,832 46
1893	94,119 43	53,870 30	34,223 14	2,691 32	300,105 00	817,000 00	419,350 07	34,616 73	3,949 02	40,053 13 Cr.	25,768 36
1894	134,019 44	99,997 01	876 26	135,691 32	332,785 00	.....	430,154 27	31,210 44	4,163 87	.....	27,706 34
1895	81,775 83	100,200 88	6,391 08	185,691 32	332,785 00	.....	469,638 47	28,007 67	4,005 32	.....	58,267 18
1896	126,537 21	80,575 08	9,410 31	110,000 00	332,785 00	200,000 00	484,690 88	27,092 02	12,700 81	29,220 00 Cr.	89,018 51
1897	140,781 63	88,557 99	4,340 97	.....	340,785 00	250,000 00	495,678 38	25,080 33	11,311 42	35,772 00 Cr.	87,074 95
1898	56,992 87	84,123 76	130 56	35,000 00	354,785 00	.....	498,349 50	25,306 24	6,803 19	.....	88,638 42
1899	26,988 20	92,247 32	1,238 89	50,000 00	359,785 00	.....	517,514 10	27,816 75	8,657 79	.....	100,959 64
1900	46,934 57	98,437 55	2,170 37	90,000 00	349,572 48	2,605,000 00	550,300 59	27,287 28	7,847 33	3,465 80 Cr.	137,357 47
1901	.....	135,965 91	3,635 00	.....	222,565 00	90,000 00	583,027 62	31,929 77	31 87	.....	262,761 38
1902	3,220 26	138,030 42	.....	.....	225,265 00	.....	694,016 02	30,862 35	.....	.....	250,592 95
1903	59,624 26	162,156 74	686 11	55,000 00	225,265 00	.....	616,711 86	31,903 57	.....	.....	290,507 58
Total	\$6,965,285 70	\$2,551,973 11	\$503,168 33	.....	\$8,877,519 45	\$10,006,000 00	\$11,194,297 28	\$854,305 54	\$75,723 56	\$92,774 96 Cr.	\$1,462,834 03

The cost of Maintenance to September 30, 1878, viz.: \$194,680.25, should be added to Construction, to agree with the Auditor's Monthly Statement to the City Council. \$41,000.00 due July 1, 1900, paid.

Expenses to September 30, 1903:

Cost of construction.....	\$6,965,285 70
Cost of maintenance.....	2,551,973 11
Interest on temporary loans.....	503,168 33
Interest on bonds.....	8,875,519 45
	<hr/>
	\$18,895,946 59

Receipts to September 30, 1903:

Receipts for Water Rents.....	\$11,194,297 28
Premium, less discount on bonds.....	92,774 96
Sale of Material, etc., Maintenance Account	954,365 54
Sale of material, etc., Construction Account	75,723 56
	<hr/>
	12,317,161 34

Net cost of the Water Works for construction, maintenance, interest on bonds and temporary loans, and including all receipts except increase of sinking funds, to September 30, 1903..... \$3,578,785 25

Bonds issued to September 30, 1903.....	\$10,006,000 00
Less bonds paid.....	\$4,000,000 00
Less sinking funds after crediting excess of receipts over expenses for 1902-1903	1,554,599 28
	<hr/>
	\$5,554,599 28

Net debt of Water Works, September 30, 1903.....\$4,451,400 72

The following is a statement of the excess of receipts over and above the expenses of managing the Water Works for the financial year ending September 30, 1903:

Amount received from Water Rents.....	\$616,711 86
Amount received from sale of material, etc., Maintenance Account	31,903 57
	<hr/>
	\$648,615 43
Interest paid on the Water Debt.....	\$225,951 11
Cost of managing the Water Works.....	162,156 74
	<hr/>
	388,107 85

Excess of receipts over and above the expense of interest and managing the Water Works, for 1902-1903, paid to Board of Commissioners of Sinking Funds \$260,507 58

SEWER LOANS.

Statement of loans authorized, amounts issued, etc.:

Authority of General Assembly.	Amount.	Loans Issued.	Loans Outstanding.	Expended.	Unex- pended.
Chapter 433, Janu- ary Session, 1876.	\$1,000,000 00	\$1,000,000 00	.....	\$1,000,000 00	.....
Chapter 384, May Session, 1883.....	2,000,000 00	2,000,000 00	\$2,000,000 00	2,000,000 00	.....
Chapter 942, Janu- ary Session, 1891.	2,000,000 00	2,000,000 00	2,000,000 00	2,000,000 00	.....
Chapter 1231, Janu- ary Session, 1893.	1,500,000 00	775,000 00 *514,000 00	775,000 00 *514,000 00	1,284,798 50	\$4,201 50
	\$6,500,000 00	\$6,289,000 00	\$5,289,000 00	\$6,284,798 50	\$4,201 50

* In Floating Debt.

Total loans authorized..... \$6,500,000 00
 Less amount paid..... 1,000,000 00

\$5,500,000 00

Bonds outstanding..... \$4,775,000 00
 Notes outstanding..... 514,000 00

Total amount outstanding..... 5,289,000 00

Amount authorized and not hired..... \$211,000 00
 Loans authorized by the City Council but not issued (see
 statement on page 4)..... 161,000 00

Amount which the City Council may authorize to be hired. • \$50,000 00

SEWER CONSTRUCTION.

The following is a statement of the cost of construction and maintenance of the public sewers built under the present system of sewerage, to September 30, 1890, and during each fiscal year since that date.

YEARS.	Cost of Construction	Cost of Maintenance	Interest on Temporary Loans.	Net Floating Debt Each Year.	Interest on Bonds.	Bonds Issued.	Received from Assessments.	Sale of Material. Construction Account.	Sale of Material. Maintenance Account.	Premium on Bonds.
To										
1890.....	\$2,279,977 65	\$590,732 77	\$163,160 20	.....	\$664,233 64	\$1,000,000 00	\$712,061 43	\$685 25	\$1,691 07	\$1,920 00
1891.....	569,159 16	24,826 82	26,986 17	\$283,000 00	48,233 34	1,125,000 00	28,885 35	301 98	748 82	18,787 50
1892.....	831,949 05	26,002 32	3,150 00	300,000 00	103,339 95	500,000 00	64,957 00	2,402 45	926 67	41,445 00
1893.....	796,742 70	34,336 94	6,539 72	300,000 00	113,300 60	500,000 00	170,895 17	2,363 21	701 40	28,070 00
1894.....	621,558 24	31,243 10	16,118 06	670,000 00	133,402 22	.....	249,853 08	176 74	473 40	.....
1895.....	496,939 28	33,967 81	27,893 06	360,400 00	133,386 45	800,000 00	217,635 31	2,927 67	638 72	111,616 00
1896.....	389,683 94	39,485 11	18,000 00	200,000 00	135,000 00	500,000 00	137,016 20	1,641 22	704 45	68,450 00
1897.....	233,949 78	36,154 91	8,627 78	125,000 00	155,000 00	300,000 00	95,702 91	1,503 03	1,175 86	45,715 00
1898.....	201,637 81	66,136 41	7,038 88	125,000 00	167,000 00	200,000 00	86,561 21	1,248 36	1,312 34	15,220 00
1899.....	294,727 31	63,740 63	6,136 12	167,000 00	156,000 00	250,000 00	84,814 72	2,237 32	3,015 64	1,250 00
1900.....	257,439 00	64,708 54	6,403 13	124,500 00	163,500 00	300,000 00	60,748 30	3,977 93	3,145 24	380 00
1901.....	200,305 55	72,429 54	4,861 34	20,000 00	172,500 00	300,000 00	79,764 46	1,510 10	4,738 33	.....
1902.....	228,227 92	108,302 36	3,869 56	247,000 00	181,500 00	.....	71,217 37	2,184 73	2,175 59	.....
1903.....	266,781 53	116,976 98	10,949 22	514,000 00	181,500 00	.....	49,913 94	2,000 50	2,006 21	.....
	\$7,669,178 92	\$1,069,134 24	\$309,163 24	.....	\$2,608,016 40	\$6,775,000 00	\$2,110,027 05	\$25,170 49	\$23,451 74	\$342,863 50

* Matured and paid.

NOTE.—The sum of \$28,956.24 paid for sewers in 1879 should be added to Construction Account, and the sum of \$461.55 returned by the City Engineer in 1884 as overdraft on account of his expenses to Europe, deducted, to agree with the Auditor's monthly statement to the City Council.

IMPROVED SEWERAGE.

The following is a statement of the amounts charged to sewer construction to September 30, 1903, and included in the previous table under the head of cost of construction, for payments made on account of the improved sewerage system, viz. :

YEARS.	a. Cost of Construction of Improved Sewerage.	b. Expense of City Engineer to Europe.	b. Printing and Engraving for City Engineer's Report.	c. Expense of Commission to examine City Engineer's Plan of Sewerage System.	d. Expense of Borings, Soundings, etc.	e. Cost of Land for right of way and Sewerage Purposes.
To 1890	\$57,950 05	\$3,194 01	\$6,544 82	\$4,132 99	\$4,775 38	\$124,480 17
1891	464,614 67					2,963 84
1892	562,450 63					1,149 09
1893	426,875 22					3,000 00
1894	416,038 76					
1895	427,948 13					
1896	282,945 63					
1897	123,397 00					
1898	134,770 52					9,000 00
1899	192,857 07					
1900	137,038 06					
1901	125,999 95					1,062 90
1902	134,681 60					
1903	179,902 85					1,000 00
	\$3,683,471 04	\$3,194 01	\$6,544 82	\$4,132 99	\$4,775 38	\$142,676 00

a. { See City Council Resolution, number 406, approved July 15, 1889.

b. " " " " 663, " October 14, 1892.

c. " " " " 73, " February 23, 1884.

d. " " " " 418, " September 17, 1886.

e. " " " " 420, " September 10, 1887.

f. " " " " 524, " October 20, 1887.

g. " " " " 169, " April 20, 1888.

h. " " " " 196, " April 14, 1891.

SEWER CONSTRUCTION.

Expenses to September 30, 1903:

Cost of construction.....	\$7,669,178 92
Cost of maintenance.....	1,009,134 24
Interest on temporary loans.....	309,133 24
Interest on bonds.....	2,508,016 40
	<hr/>
	\$11,495,492 80

Receipts to September 30, 1903:

Receipts for sewer assessments.....	\$2,110,027 05
Sale of material, etc., Maintenance Account	23,451 74
Sale of material, etc., Construction Account	25,170 49
Premiums on Bonds.....	342,833 50
	<hr/>
	\$2,501,512 78

Net cost for construction, maintenance, interest on bonds
and temporary loans, and including all receipts ex-
cept increase of sinking funds, to September 30, 1903 \$8,993,980 02:

HIGHWAY LOANS.

Statement of loans authorized, amounts issued, etc.:

Authority of General Assembly.	Amount.	Loans Issued.	Loans Outstanding	Expended.	Unex- pended.
Chapter 658, May Session, 1887.....	\$200,000 00	\$200,000 00	.....	\$200,000 00	.....
Chapter 870, Janu- ary Session, 1890.	300,000 00	300,000 00	\$100,000 00	300,000 00	.....
Chapter 941, Janu- ary Session, 1891.	700,000 00	700,000 00	700,000 00	700,000 00	.....
Chapter 1227, Jan- uary Session, 1893.	500,000 00	500,000 00	500,000 00	500,000 00	.....
Chapter 1399, Jan- uary Session, 1896.	600,000 00	600,000 00	600,000 00	600,000 00	.....
Chapter 635, Janu- ary Session, 1899.	100,000 00	100,000 00	100,000 00	96,942 80	\$3,057 20
*Chapter 800, May Session, 1900.....	200,000 00	.....	.....	.....	.....
Chapter 876, Janu- ary Session, 1901.	150,000 00	150,000 00	150,000 00	149,129 81	870 19
	\$2,750,000 00	\$2,550,000 00	\$2,150,000 00	\$2,546,072 61	\$3,927 39

* New Street Market Square to Prospect Street.

Total loans authorized.....	\$2,750,000 00
Less amounts paid.....	400,000 00
	\$2,350,000 00
Bonds outstanding.....	2,150,000 00
Amount authorized, but not issued.....	\$200,000 00

PARK LOANS.

Statement of loans authorized, amounts issued, etc.:

Authority of General Assembly.	Amount.	Loans Issued.	Loans Outstanding.	Expended.	Unexpended.
Chapter 873, January Session, 1890..	<i>a</i> \$75,000 00	\$75,000 00	\$75,000 00	\$75,000 00	.....
Chapter 943, January Session, 1891.	<i>b</i> 500,000 00	500,000 00	500,000 00	500,000 00	.....
Chapter 993, May Session, 1891....					
Chapter 1229, January Session, 1893..	<i>c</i> 100,000 00	†100,000 00	100,000 00	98,923 14	\$1,076 86
Chapter 1230, January Session, 1893..	<i>d</i> 300,000 00	300,000 00	300,000 00	300,000 00	.....
Chapter 1291, January Session, 1894..	<i>e</i> 100,000 00	{ 84,000 00 *16,000 00	{ 84,000 00 *16,000 00	100,000 00	.....
Chapter 1401, January Session, 1895..	<i>f</i> 150,000 00	150,000 00	150,000 00	143,785 90	6,214 10
Chapter 425, Sept. Session, 1896....	<i>g</i> 150,000 00	{ 100,000 00 *42,000 00	{ 100,000 00 *27,000 00	140,870 87	1,129 13
Chapter 875, January Session, 1901.					
	\$1,375,000 00	\$1,367,000 00	\$1,352,000 00	\$1,358,579 91	\$8,420 09

Total loans authorized.....\$1,375,000 00
 Less amount paid.....15,000 00

Bonds outstanding.....†\$1,309,000 00
 Notes outstanding.....43,000 00

Amount authorized and not hired.....*h* \$8,000 00

* In floating debt, \$15,000.00 paid in 1901.

† \$60,000.00 of this amount sold May 1, 1899, as part of Public Improvement Loan due May 1, 1929. See page 27 of the City Auditor's fifty-third annual statement.

a. Purchase of Davis estate.

b. Purchase of Land for and construction of parks.

c. Improvement of Davis Park and purchase of land for same.

d. Improvement of Roger Williams and Blackstone Parks, and erection of art museum at Roger Williams Park.

e. Purchase of land for city parks.

f. Purchase of land and payment of judgments for land condemned for park purposes.

g. Completion of work upon Roger Williams Park and Blackstone Park and Blackstone Boulevard Parkway; also purchase of land, Blackstone Park.

h. Purchase of land, Blackstone Park.

SCHOOL LOANS.

Statement of loans authorized, amounts issued, etc.:

Authority of General Assembly.	Amount.	Loans Issued.	Loans Outstanding	Expended.	Unex- pended.
Chapter 944, Janu- ary Session, 1891.	\$300,000 00	\$300,000 00	\$300,000 00	\$300,000 00	.....
Chapter 1228, Janu- ary Session, 1893.	300,000 00	300,000 00	300,000 00	300,000 00	.....
Chapter 1450, Janu- ary Session, 1895.	400,000 00	400,000 00	400,000 00	400,000 00	.....
Chapter 364, Janu- ary Session, 1896.	300,000 00	300,000 00	300,000 00	300,000 00	.....
Chapter 510, May Session, 1897	425,000 00	{ 150,000 00 *202,500 00	150,000 00 *202,500 00	344,415 27	\$8,084 73
	\$1,725,000 00	\$1,652,500 00	\$1,652,500 00	\$1,644,415 27	\$8,084 73

*In floating debt.

Total loans authorized.....	\$1,725,000 00
Bonds outstanding.....	\$1,450,000 00
Notes in floating debt.....	202,500 00
	<u>1,652,500 00</u>
Amount authorized and not hired	\$72,500 00

The expenditures for school purposes from Loan Account to September 30, 1903, amount to \$1,644,415.27, which classified show the following result:

	Expended for Land.	Expended for Buildings.	Total.
Primary Grade.....	\$78,156 08	\$742,173 93	\$820,330 01
Grammar and Primary, combined.....		34,348 45	34,348 45
Grammar Grade.....	16,769 59	227,576 98	244,346 57
High and Manual Training Grade.....	153,654 59	391,735 65	545,390 24
Total.....	\$248,580 26	\$1,395,835 01	\$1,644,415 27

The following have been paid to the Board of Commissioners of Sinking Funds, in accordance with Chapter 112, of the city ordinances, approved September 11, 1901:

BALANCES.

The unexpended balances of the general appropriations at the close of the fiscal year, as per City Auditor's Monthly statement, dated October 23, 1903, was..	\$43,395 04
Less the following balances carried forward to new account, 1903-1904, viz.:	
Public Parks, General Account.....	\$26 08
Public Parks, Roger Williams Park.....	17,964 90
Public Works, Sidewalks and Curbing....	13,764 30
Relief Fund for Firemen and Policemen..	903 12
	<hr/> 32,658 40

Amount of unexpended balances credited to Board of Commissioners of Sinking Funds.....	\$10,733 64
--	-------------

The following receipts were also credited to said Board in accordance with said chapter 112, viz.:

Edwin A. Briggs, for old fire station building on Exchange place	875 00
United States, consideration for site for new Post Office	1 00
City Tax of 1895, with interest.....	12 41
City Tax of 1896, with interest.....	12 40
City Tax of 1897, with interest.....	11 77
City Tax of 1898, with interest.....	27 28
City Tax of 1899, with interest.....	273 88
City Tax of 1900, with interest.....	77 94
City Tax of 1901, with interest.....	4,135 48
	<hr/>
Total	\$16,163 80

LIMITATION OF THE CITY DEBT.

EXTRACT FROM CHAPTER 36 OF THE GENERAL LAWS OF THE STATE.

"SECTION 20. The outstanding notes, bonds, and contracts of towns shall be paid and be fulfilled according to the tenor thereof, and all public works now authorized to be prosecuted shall be prosecuted, and all indebtedness now authorized to be incurred on account thereof, may be incurred according to the tenor of the authority therefor.

SEC. 21. No town shall, without special statutory authority therefor, incur any debt in excess of three per centum of the taxable property of such town, including the indebtedness of such town on the tenth day of April, one thousand eight hundred seventy eight, but the giving of a new note or bond, for a pre-existing debt, or for money borrowed and applied to the payment of such pre-existing debt, is excepted from the provisions of this section and the amount of any sinking fund shall be deducted in computing such indebtedness."

The city has hired, from time to time during the fiscal year, the sum of \$612,720.83, exclusive of renewals, for such purposes as has heretofore been authorized by the General Assembly.

In May, 1903, the City Council ordered the assessment of the tax for 1903, fixing the rate at \$1.65 on each \$100.

The Assessors' valuation of the ratable property of the city as assessed July 1, 1903, was as follows:

Personal estate	\$43,241,080 00
Real estate	157,427,460 00
Total	\$200,668,540 00

Upon this sum the annual tax was based as follows:

For ordinary expenses	104½ cents
For the sinking funds, notes and interest.....	44½ cents
For the city's proportion of the State tax.....	16 cents

The State valuation of the city, as fixed by Commissioners, under Chapter 562, Public Laws of Rhode Island, passed May 6, 1898, is \$173,023,147.00, upon which a yearly

tax of \$311,441.66 is to be assessed, payable one-half in June, and the balance in December.

In accordance with Chapter 12, Section 62 of the ordinance in relation to finances, the City Auditor has examined the statement of the City Treasurer for the financial year ending September 30, 1903, and found the same to be correct, showing a balance of \$307,533.68, which amount was on deposit in the Industrial Trust Company, Rhode Island Hospital Trust Company, and Merchants National Bank. Certificates from said institutions, of deposits agreeing in the total amount with the above are on file with the City Treasurer.

In response to a request made to Mr. Walter F. Slade, Commissioner of Public Works, to appoint some person in the engineer's department to examine the records in the assessors' office and assist the Auditor in revising the schedule of city property, Mr. William G. Brennen was detailed and rendered valuable assistance.

The statement in detail of the receipts and expenditures of the city and other accounts required of this department, will be found under their appropriate heads.

Respectfully submitted,

PHILIP S. CHASE,

City Auditor.

ESTIMATED RECEIPTS.

Statement of the estimated receipts for the fiscal year ending September 30, 1903, submitted to the City Council in March, 1902, and also the actual receipts for the same period:

TITLES OF ACCOUNTS.	Estimated.	Actual.	Increase.	Decrease.
City Licenses.....	\$32,500 00	\$31,084 25		\$1,405 75
Fire Department.....	100 00	108 00	\$8 00	
Interest.....	47,000 00	50,879 97	3,879 97	
Liquor Licenses.....	165,000 00	181,780 00	16,780 00	
Miscellaneous.....	143,700 00	175,032 19	31,332 19	
Police Department.....	8,000 00	12,903 46	4,903 46	
Public Buildings.....		12 00	12 00	
Public Schools.....	70,000 00	73,880 76	3,880 76	
Public Works—Bridges.....	100 00	220 66	120 66	
“ “ City Engineer's.....				
“ “ Lights.....	250 00	170 24		79 76
Rents.....	5,550 00	5,076 28		473 72
Streets and Sewers.....	2,000 00	5,062 60	3,062 60	
Water Rents.....	345,000 00	*356,204 28	11,204 28	
Water Works Maintenance....	30,000 00	31,903 57	1,903 57	
Totals.....	\$849,200 00	\$924,308 26	\$77,067 49	\$1,969 23
Increase, net.....	75,108 26			75,108 26
	\$924,308 26			\$77,067 49

*In addition to this amount \$260,507.58 was received from Water Rents and paid to the Board of Commissioners of Sinking Funds to be credited to the fund for the redemption of Water Loan due in 1906.

EXPENDITURES.

A statement of the expenditures for the fiscal year 1902-1903, showing the increase or decrease from the amount appropriated by City Council resolution No. 306, approved September 23, 1902:

TITLES OF ACCOUNTS.	Appropriations.	Expended.	Increase.	Decrease.
Asylum Walls and Buildings.....	\$2,000 00	\$1,994 27		\$5 73
Auditing Department.....	7,400 00	7,256 46		143 54
City Clerk's Department.....	7,500 00	7,662 36	\$162 36	
City Council.....	21,000 00	19,994 91		1,005 09
City Hall.....	25,000 00	26,489 32	1,489 32	
Clerk of Common Council and Clerk of Committees.....	4,600 00	4,518 78		81 22
Contingencies.....	50,000 00	61,565 97	11,565 97	
Elections.....	24,000 00	24,232 68	232 68	
Executive Department.....	7,300 00	7,252 59		47 41
Fire Department.....	360,000 00	360,000 00		
Harbor.....	5,000 00	5,408 30	408 30	
Health Department.....	50,000 00	53,497 85	3,497 85	
Inspector of Buildings.....	4,200 00	4,149 65		50 35
Inspector of Milk.....	6,000 00	6,040 17	40 17	
Inspector of Plumbing.....	5,500 00	5,675 00	175 00	
Interest.....	30,000 00	26,135 94		3,864 06
Interest on Loans.....	642,210 00	641,887 50		322 50
Law Department.....	14,000 00	14,947 89	947 89	
Municipal Court.....	7,000 00	6,685 96		314 04
Olneyville Free Library Asso.....	1,000 00	1,000 00		
Police Department.....	390,000 00	389,999 73		27
Printing.....	5,000 00	5,949 67	949 67	
Providence Lying-in Hospital.....	2,000 00	2,000 00		
Providence Public Library.....	20,000 00	20,000 00		
Public Buildings.....	75,000 00	74,998 57		1 43
Public Parks—General Account	8,246 96	8,220 88		26 08
Public Parks—Roger Williams Park.....	58,007 46	40,042 56		17,964 90
Public Schools.....	688,880 78	688,880 76		
Public Works—Bridges.....	25,000 00	27,942 04	2,942 04	
Public Works—City Engineer's Department.....	50,000 00	47,577 31		2,422 69
Public Works—Highways.....	301,963 33	301,728 72		234 61
Public Works—Lights.....	300,000 00	288,214 58		11,785 42
Public Works—Office.....	23,000 00	22,674 75		325 25
Public Works—Sewer Maintenance.....	127,006 21	116,976 98		10,029 23
Public Works—Sidewalks and Curbing.....	33,240 85	19,476 55		13,764 30
Public Works—Water Works Maintenance.....	215,000 00	162,156 74		52,843 26
Record Commissioners.....	1,000 00	966 68		33 32
Recorder of Deeds.....	8,000 00	8,000 00		
Relief Fund for Firemen and Policemen.....	3,000 00	2,096 88		903 12
Rhode Island Hospital.....	10,000 00	10,000 00		
Sealer of Weights and Measures	3,000 00	3,247 04	247 04	
Sinking Funds.....	235,110 00	235,110 00		
State Tax.....	311,441 66	311,441 66		
Support of the Poor.....	30,372 73	34,617 59	4,244 86	
Tax Department.....	19,452 50	19,916 31	463 81	
Treasury Department.....	31,905 20	29,778 56		2,126 64
Total.....	\$4,249,327 66	\$4,158,410 16	\$27,366 96	\$116,284 46
Decrease, net.....		90,917 50	90,917 50	
		\$4,249,327 66	\$118,284 46	

TRANSFERS.

The following is a statement of the special transfers from one account to another, made by order of the City Council, and by authority of Chapter 113, of the ordinances, approved September 11, 1901:

Contingencies	\$3,127 53	
To City Clerk's Department.....		\$162 36
Harbor		500 00
Inspector of Milk.....		40 17
Inspector of Plumbing.....		175 00
Sealer of Weights and Measures		250 00
Support of the Poor.....		2,000 00
Interest	2,947 00	
Public Works, Sewer Maintenance...	7,000 00	
To City Hall.....		1,489 32
Elections		232 68
Health Department.....		3,500 00
Law Department.....		950 00
Printing		975 00
Support of the Poor.....		2,250 00
Tax Department.....		550 00
Public Parks, R. W. Park	100 00	
To Public Parks, General Account.		100 00
Public Works, Sewer Maintenance..	3,000 00	
To Public Works, Bridges.....		3,000 00

COMPARATIVE STATEMENT

Of Expenditures, Annual Appropriation Accounts, for the last three fiscal years:

TITLES OF ACCOUNTS.	Expenditures, 1900-1901.	Expenditures, 1901-1902.	Expenditures, 1902-1903.
Asylum Walls and Buildings.....	\$1,824 53	\$1,797 65	\$1,994 27
Auditing Department.....	7,149 58	7,116 93	7,256 46
City Clerk's Department.....	8,899 09	8,186 27	7,662 36
City Council.....	19,942 01	24,991 38	19,994 91
City Hall.....	32,298 83	23,050 07	26,489 32
Clerk of Common Council and Clerk of Committees.....	4,554 04	4,517 77	4,518 78
Contingencies.....	54,520 02	21,105 04	61,565 97
Elections.....	27,763 48	26,139 59	24,232 68
Executive Department.....	7,330 23	7,237 57	7,252 59
Fire Department.....	347,998 28	*344,750 00	360,000 00
Harbor.....	5,203 93	4,745 08	5,408 30
Health Department.....	52,672 35	*44,323 36	53,497 85
Inspector of Buildings.....	4,011 96	4,041 31	4,149 65
Inspector of Milk.....	6,050 00	5,633 06	6,040 17
Inspector of Plumbing.....	5,500 00	5,448 86	5,675 00
Interest.....	17,839 75	19,725 43	26,135 94
Interest on Bonds.....	621,495 00	635,445 00	641,887 50
Law Department.....	13,820 44	13,781 61	14,947 89
License Commissioners.....	3,349 11	†738 01	.....
Municipal Court.....	7,520 72	7,563 54	6,685 96
Olneyville Free Library Associa- tion.....	.....	.....	1,000 00
Police Department.....	368,147 13	*378,192 77	389,999 73
Printing.....	4,937 74	5,265 04	5,949 67
Providence Lying-In Hospital....	.....	2,000 00	2,000 00
Providence Public Library.....	20,000 00	20,000 00	20,000 00
Amounts carried forward.....	\$1,642,828 22	\$1,615,795 34	\$1,704,345 00

* Incomplete; bills not all in.

† Office abolished Nov. 22, 1901.

TITLES OF ACCOUNTS.	Expenditures, 1900-1901.	Expenditures, 1901-1902.	Expenditures, 1902-1903.
Amounts brought forward.....	\$1,642,828 22	\$1,615,795 34	\$1,704,345 00
Public Buildings.....	78,951 22	*70,999 72	74,996 57
Public Parks—General Account..	8,911 12	8,159 41	8,220 88
Public Parks—Roger Williams Park.....	38,676 80	38,270 47	40,042 56
Public Schools.....	682,552 60	*675,442 01	688,880 76
Public Works—Bridges.....	28,494 00	28,366 98	27,942 04
Public Works—City Engineer's Department.....	47,700 80	49,179 99	47,577 31
Public Works—Highways.....	301,518 41	278,021 48	301,728 72
Public Works—Lights.....	290,843 38	292,900 93	288,214 58
Public Works—Office.....	20,997 05	20,647 35	22,674 75
Public Works—Sewer Mainte- nance.....	72,429 54	138 302 36	116,976 98
Public Works—Sidewalks and Curbing.....	24,252 88	29,155 51	19,476 55
Public Works—Water Works Maintenance.....	135,995 91	159,036 42	162,156 74
Record Commissioners.....	1,475 56	739 48	966 68
Recorder of Deeds.....	7,699 92	7,900 26	8,000 00
Relief Fund for Firemen and Policemen.....	1,172 37	1,693 60	2,096*88
Rhode Island Hospital.....	9,000 00	9,000 00	10,000 00
Sealer of Weights and Measures..	3,060 74	3,347 68	3,247 04
Sinking Funds.....	210,950 00	216,950 00	235,110 00
Sinking Fund Water Loan due July 1, 1906.....	252,761 38	250,582 95	260,507 58
State Tax.....	311,441 66	311,441 66	311,441 66
Support of the Poor.....	25,924 06	25,527 63	34,617 59
Tax Department.....	19,539 88	17,946 26	19,916 31
Treasury Department.....	29,984 85	30,051 02	29,778 56
	\$4,217,162 35	\$4,249,452 51	\$4,418,917 74

* Incomplete: bills not all in.

BALANCE SHEET, SEPTEMBER 30, 1903.

TITLES OF ACCOUNTS.	DR.	CR.
Administrator's Accounts.....		\$17,918 24
Anna H. Man Trust Fund.....		200,136 08
Anna H. Man Trust Fund Income.....		3,462 37
Blackstone Park Land Account.....		9,129 13
Central Fire Station, etc.....		472 85
Charles H. Smith Trust Fund.....		1,053 41
Chattlet Street Bridge.....		12,701 08
City of Providence.....	\$19,183,445 92	
City Treasurer.....	307,533 68	
City Tax of 1900.....	21,448 98	
City Tax of 1901.....	16,207 85	
City Tax of 1902.....	25,077 38	
Davis Park Improvement Loan Account.....		1,076 86
Davis Estate Loan, due July 1, 1909.....		75,000 00
Daniel Wanton Lyman Bequest for Elisha Dyer Monument.....		140 00
Dog Licenses.....		1,535 00
Fire and Police Loan, due November 1, 1932.....		258,000 00
Highway Loan, due January 1, 1912.....		150,000 00
Highway Loan, due May 1, 1924.....		1,200,000 00
Highway Loan, due April 1, 1927.....		500,000 00
Highway Loan, due May 1, 1930.....		300,000 00
Highways, Special Account.....		3,927 39
Johnston Annexation Loan, due September 1, 1939.....		166,000 00
Johnston School District No. 1, Bonds, due November 1, 1927.....		17,000 00
Johnston School District No. 15, Bonds, due October 1, 1909.....		25,000 00
Johnston School District No. 15, Bonds, due October 1, 1924.....		30,000 00
Johnston Town Bonds, due February 1, 1912.....		50,000 00
Johnston Town Bonds, due February 1, 1917.....		59,000 00
Loan Account.....		1,108,420 06
Mary Swift Bragunn Fund.....		592 48
Mount Pleasant Fire Station.....		16,789 44
Neutaconkanut Hill Park.....		44,000 00
New Street, Market Square to Prospect Street.....		200,000 00
North Burial Ground.....		4,320 14
North Burial Ground, Land Account.....	42,847 93	
North Burial Ground, Sinking Fund.....		5,005 79
Park Loan, due March 1, 1922.....		500,000 00
Park Loan, due May 1, 1947.....		674,000 00
Public Improvement Loan, due May 1, 1929.....		84,000 00
Public Improvement Loan, due May 1, 1937.....		640,000 00
Amounts carried forward.....	\$19,596,561 74	\$6,358,780 32

BALANCE SHEET, SEPTEMBER 30, 1903.

TITLES OF ACCOUNTS.	DR.	CR.
Amounts brought forward.....	\$19,506,561 74	\$6,358,780 32
Public Parks, General Account.....		26 08
Public Parks, Roger Williams Park.....		17,964 90
Public Works, Sidewalks and Curbing.....		13,764 30
Refurnishing Recorder's Department.....		19,109 98
Receiving Tomb, North Burial Ground.....		16,157 98
Relief Fund for Firemen and Policemen.....		903 12
Reservation Fund.....		2,148 00
Reserved Fund.....		57,845 52
Roger Williams Park, (Receipt Account).....		206 58
Roger Williams Park, Land Account.....		6,214 10
School Houses and Lots, Loan Account.....		80,584 73
School Loan, due July 1, 1911.....		300,000 00
School Loan, due May 1, 1925.....		300,000 00
School Loan, due April 1, 1927.....		500,000 00
School Loan, due May 1, 1929.....		350,000 00
Senator Anthony Prize Fund.....		3,005 63
Sewer Assessments.....		121,056 99
Sewer Construction.....		165,201 50
Sewer Loan, due July 1, 1921.....		1,125,000 00
Sewer Loan, due March 1, 1922.....		500,000 00
Sewer Loan, due April 1, 1923.....		500,000 00
Sewer Loan, due May 1, 1925.....		800,000 00
Sewer Loan, due June 1, 1926.....		500,000 00
Sewer Loan, due April 1, 1927.....		300,000 00
Sewer Loan, due April 1, 1928.....		200,000 00
Sewer Loan, due May 1, 1929.....		250,000 00
Sewer Loan, due May 1, 1930.....		300,000 00
Sewer Loan, due May 1, 1931.....		300,000 00
State of Rhode Island.....		1,283 25
Tillinghast Donation.....		182 38
Water Works Construction.....		105,957 05
Water Works Loan, due July 1, 1906.....		1,580,000 00
Water Works Loan, due September 1, 1916.....		483,000 00
Water Works Loan, due April 1, 1923.....		817,000 00
Water Works Loan, due June 1, 1926.....		200,000 00
Water Works Loan, due April 1, 1927.....		250,000 00
Water Refunding Loan, due May 1, 1930.....		2,666,000 00
Weybosset Bridge Loan, due May 1, 1929.....		270,000 00
Weybosset Bridge and River Walls.....		125,170 33
	\$19,506,561 74	\$19,596,561 74

STATEMENT.

TABLE I. Showing receipts and expenditures for the years ending September 30, 1885, 1890, and each year since.

YEAR ENDING SEPTEMBER 30.	RECEIPTS.					
	ORDINARY.			EXTRAORDINARY.		
	From Taxes.	From Other Sources.	Total.	From Loans.	From Other Sources.	Total.
1885.....	\$1,782,421 37	\$559,272 51	\$2,341,693 88	\$1,790,594 59	a \$715,417 07	\$2,506,011 66
1886.....	2,103,332 52	761,968 71	2,865,301 23	1,841,692 95	160,436 81	2,002,129 76
1887.....	2,108,848 65	759,697 66	2,868,546 31	4,371,742 95	233,568 96	4,605,341 91
1888.....	2,250,365 27	755,729 98	3,006,095 25	2,823,082 95	296,314 42	3,119,397 37
1889.....	2,360,405 01	807,925 88	3,168,330 89	4,606,507 40	b 705,754 98	5,312,262 39
1890.....	2,537,401 60	806,801 08	3,344,202 68	2,686,120 95	915,885 37	3,612,006 32
1891.....	2,636,463 60	910,815 11	3,547,278 71	3,952,356 27	c 1,654,001 68	5,606,357 95
1892.....	2,754,854 89	e 838,160 02	3,593,014 91	2,492,851 10	873,141 31	3,365,992 41
1893.....	2,846,455 92	820,402 79	3,666,858 71	4,834,365 90	345,027 79	5,179,383 69
1894.....	2,849,504 34	851,119 16	3,700,623 50	1,022,107 75	308,510 04	1,330,617 79
1895.....	2,888,107 55	1,113,074 88	4,101,182 43	2,041,643 31	d 1,166,715 51	5,031,241 29
1896.....	3,065,252 98	1,108,083 37	4,243,346 35	3,772,550 55	f 1,602,767 75	5,375,318 30
1897.....	3,045,031 62	1,202,611 62	4,247,643 24	1,048,480 46	72,765 51	1,121,225 97
1898.....	3,062,746 84	1,293,386 88	4,356,133 72	712,723 91	92,875 67	805,599 58
1899.....	3,138,765 56	1,320,246 07	4,459,011 63	1,054,920 06	236,284 46	1,291,204 52
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STATEMENT. TABLE I.—CONTINUED.

YEAR ENDING SEPTEMBER 30.	EXPENDITURES.						
	ORDINARY.			EXTRAORDINARY.			
	Interest and Sinking Funds	Other Purposes.	Total.	Loans.	Other Purposes.	Total.	Aggregate.
1885.....	g \$633,265 97	\$1,020,090 21	\$2,253,892 18	\$1,355,594 59	\$1,225,950 86	\$2,581,545 45	\$4,835,407 03
1886.....	h 629,088 93	2,073,798 36	2,702,887 29	1,363,692 96	606,394 83	2,020,077 78	4,722,965 07
1887.....	i 667,325 28	2,330,387 08	2,997,712 36	2,551,692 96	1,473,437 18	4,025,130 13	7,022,849 49
1888.....	1 787,123 74	2,328,685 39	3,115,809 13	1,024,692 80	2,347,174 56	3,369,867 51	6,485,676 64
1889.....	1 851,505 24	2,446,289 66	3,317,794 90	3,030,692 85	1,939,124 51	5,469,817 46	8,787,612 36
1890.....	1 870,794 31	2,606,623 12	3,477,417 43	1,390,692 96	1,997,345 21	3,318,038 16	6,795,455 59
1891.....	1 943,276 82	2,799,628 39	3,742,905 21	4,014,300 07	1,667,505 45	5,681,805 52	9,424,770 73
1892.....	1 917,220 81	2,857,681 73	3,774,902 54	1,620,384 27	1,615,901 16	3,236,285 43	7,011,187 97
1893.....	1 1,026,307 08	2,817,451 93	3,843,759 01	3,562,214 06	1,455,024 29	5,017,238 34	8,860,997 35
1894.....	h 1,048,834 44	2,837,867 13	3,886,701 57	389,692 96	762,897 70	1,151,590 65	5,038,292 22
1895.....	h 1,113,927 26	3,025,737 83	4,139,665 09	2,367,387 75	908,819 12	3,226,206 87	7,365,871 96
1896.....	h 1,113,278 63	3,077,612 54	4,190,891 17	4,903,665 11	498,360 44	5,400,345 55	9,591,236 72
1897.....	1,103,046 13	3,144,116 22	4,247,162 35	637,304 75	499,531 36	1,136,836 13	5,383,998 48
1898.....	1,122,703 38	3,127,032 53	4,249,735 91	194,460 46	619,245 44	813,705 90	5,063,441 81
1899.....	1,179,804 82	3,269,971 17	4,449,775 99	557,223 91	710,447 94	1,267,671 85	5,717,447 94

a. Includes \$500,000.00 from sinking funds to pay bonds due in 1885.
 b. Includes \$300,000.00 from sinking funds to pay bonds due in 1886.
 c. Includes \$1,247,184.12 from sinking funds to pay bonds due in 1886.
 d. Includes \$1,050,000.00 from sinking funds to pay bonds due in 1889.
 e. Includes \$16,238.97 transferred from Committee on City Debt.
 f. Includes \$1,480,000.00 from sinking funds to pay bonds due in 1900.
 g. Includes \$23,500.00 on notes account of High School Building and Harbor Improvements (annual appropriation).
 h. Includes \$20,000.00 notes on Highway Special account (annual appropriation).
 i. Includes \$40,000.00 notes on Highway Special account (annual appropriation).

STATEMENT.
TABLE II. Showing the debt, sinking funds, population, and valuation on the 30th day of September, 1885, 1890, and each year since.

YEAR.	DEBT.		Sinking Funds.	Net Debt.	Popula- tion.	Net Debt Per Capita.	Assessors' Valuation.	Valuation Per Capita.
	Funded.	Floating.	Total.					
1885.....	\$8,622,188 22	\$1,047,128 63	\$9,669,316 85	\$1,474,314 74	118,070	\$69 41	\$124,202,000 00	\$1,061 83
1890.....	9,091,250 00	1,528,692 85	10,619,942 85	2,402,964 19	132,146	62 18	140,617,000 00	1,064 10
1891.....	10,776,250 00	1,598,692 85	12,374,942 85	2,669,301 77	9,705,641 18	.....	146,901,840 00	.....
1892.....	11,736,250 00	2,136,192 85	13,872,442 85	2,903,469 17	10,875,973 78	.....	155,542,320 00	.....
1893.....	12,713,250 00	2,117,894 27	14,831,134 27	3,067,455 00	11,733,679 27	.....	159,812,560 00	.....
1894.....	13,873,250 00	2,069,884 27	15,943,134 27	3,562,703 92	12,400,430 35	.....	167,264,200 00	.....
1895.....	13,536,000 00	2,221,384 27	15,757,384 27	2,852,881 04	12,934,503 23	88 84	169,789,060 00	1,167 16
1896.....	14,196,000 00	2,336,181 10	16,532,181 10	3,298,492 50	13,233,688 51	.....	174,232,500 00	.....
1897.....	17,020,000 00	555,692 85	17,575,692 85	3,822,129 55	13,753,563 40	.....	174,042,480 00	.....
1898.....	17,381,000 00	993,887 75	18,374,887 75	4,256,607 70	14,118,280 05	.....	181,658,120 00	.....
1899.....	17,431,000 00	636,985 11	18,067,985 11	3,725,818 08	14,342,167 03	.....	188,501,780 00	.....
1900.....	16,436,000 00	476,304 75	16,912,304 75	2,753,448 15	14,158,856 60	80 63	192,117,240 00	1,094 08
1901.....	16,824,000 00	497,460 46	17,321,460 46	3,291,614 84	14,029,845 62	78 82	192,801,860 00	1,083 16
1902.....	16,974,000 00	865,723 91	17,839,723 91	3,861,649 22	13,968,074 69	77 12	197,873,000 00	1,083 22
1903.....	17,229,000 00	1,106,420 06	18,335,420 06	4,527,482 49	13,800,937 57	74 04	200,668,540 00	1,064 70

* Estimated.

ABSTRACT OF RECEIPTS.

ANNA H. MAN TRUST FUND.....	\$135,060 95
ANNA H. MAN TRUST FUND, INCOME.....	7,554 66
BOARD OF COMMISSIONERS OF SINKING FUNDS	5,427 16
CHARLES H. SMITH TRUST FUND.....	35 91
CITY LICENSES.....	36,470 00
CITY TAX, 1902.....	3,138,765 56
CONTINGENCIES	15,320 80
DOG LICENSES.....	11,956 00
FIRE DEPARTMENT.....	108 00
FIRE AND POLICE LOAN, DUE NOVEMBER 1, 1932	258,000 00
INTEREST	50,879 97
LIQUOR LICENSES.....	242,110 00
LOAN ACCOUNT.....	796,920 06
MARY SWIFT BRAGUNN FUND.....	20 20
MISCELLANEOUS	161,092 32
NORTH BURIAL GROUND.....	26,449 31
NORTH BURIAL GROUND SINKING FUND.....	473 85
POLICE DEPARTMENT.....	12,903 46
PUBLIC BUILDINGS.....	12 00
PUBLIC PARKS, GENERAL ACCOUNT.....	146 96
PUBLIC PARKS, ROGER WILLIAMS PARK	8,956 31
PUBLIC SCHOOLS.....	62,308 56
PUBLIC WORKS, BRIDGES.....	220 66

Amount carried forward..... \$4,971,192 70

Amount brought forward.....	\$4,971,192	70
PUBLIC WORKS, HIGHWAYS.....	21,953	33
PUBLIC WORKS, LIGHTS.....	170	24
PUBLIC WORKS, SEWER MAINTENANCE.....	2,006	21
PUBLIC WORKS, SIDEWALKS AND CURBING....	24,403	66
PUBLIC WORKS, WATER WORKS MAINTENANCE	31,903	57
RENTS	5,076	28
ROGER WILLIAMS PARK, REVENUE.....	984	58
SENATOR ANTHONY PRIZE FUND.....	106	25
SEWER ASSESSMENTS.....	49,913	94
SEWER CONSTRUCTION.....	2,000	50
SINKING FUND WATER LOAN, DUE JULY 1, 1906	260,507	58
STREETS AND SEWERS.....	5,062	60
SUPPORT OF THE POOR.....	12,372	73
TAX DEPARTMENT.....	452	50
TREASURY DEPARTMENT.....	5,905	20
WATER RENTS.....	\$616,711	86
LESS CARRIED TO SINKING FUND	260,507	58
	356,204	28
	<hr/>	
	\$5,750,216	15
BALANCE IN THE CITY TREASURY, SEPTEMBER		
30, 1902.....	274,765	37
	<hr/>	
	\$6,024,981	52

ABSTRACT OF EXPENDITURES.

ANNA H. MAN TRUST FUND.....	\$137,900 00
ANNA H. MAN TRUST FUND, INCOME.....	796 66
ASYLUM WALLS AND BUILDINGS.....	1,994 27
AUDITING DEPARTMENT.....	7,256 46
BLACKSTONE PARK LAND ACCOUNT.....	42,482 25
BOARD OF COMMISSIONERS OF SINKING FUNDS.	16,163 80
CENTRAL FIRE STATION, ETC.....	40,766 28
CHATTLET STREET BRIDGE.....	54,435 72
CITY CLERK'S DEPARTMENT.....	7,662 36
CITY COUNCIL.....	19,994 91
CITY HALL.....	26,489 32
CLERK OF COMMON COUNCIL AND CLERK OF COMMITTEES	4,518 78
CONTINGENCIES	61,565 97
DAVIS PARK IMPROVEMENT LOAN ACCOUNT..	436 23
DOG LICENSES	142 60
ELECTIONS	24,232 68
EXECUTIVE DEPARTMENT	7,252 59
FIRE DEPARTMENT	360,000 00
HARBOR	5,408 30
HEALTH DEPARTMENT.....	53,497 85
HIGHWAYS, SPECIAL ACCOUNT.....	5,096 38
Amount carried forward.....	\$878,093 41

Amount brought forward.....	\$878,093 41
INSPECTOR OF BUILDINGS.....	4,149 65
INSPECTOR OF MILK.....	6,040 17
INSPECTOR OF PLUMBING.....	5,675 00
INTEREST	26,135 94
INTEREST ON BONDS.....	641,887 50
LAW DEPARTMENT.....	14,947 89
LOAN ACCOUNT.....	554,223 91
MOUNT PLEASANT FIRE STATION.....	10 56
MUNICIPAL COURT.....	6,685 96
NORTH BURIAL GROUND.....	25,238 25
OLNEYVILLE FREE LIBRARY ASSOCIATION.....	1,000 00
POLICE DEPARTMENT.....	389,999 73
PRINTING	5,949 67
PROVIDENCE LYING-IN HOSPITAL.....	2,000 00
PROVIDENCE PUBLIC LIBRARY.....	20,000 00
PUBLIC BUILDINGS.....	74,998 57
PUBLIC PARKS, GENERAL ACCOUNT.....	8,220 88
PUBLIC PARKS, ROGER WILLIAMS PARK.....	40,042 56
PUBLIC SCHOOLS	688,880 76
PUBLIC WORKS, BRIDGES	27,942 04
PUBLIC WORKS, CITY ENGINEER'S DEPARTMENT	47,577 31
PUBLIC WORKS, HIGHWAYS.....	301,728 72
PUBLIC WORKS, LIGHTS.....	288,214 58
PUBLIC WORKS, OFFICE.....	22,674 75
PUBLIC WORKS, SEWER MAINTENANCE.....	116,976 98
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Amount carried forward.....	\$4,199,294 79

Amount brought forward.....	\$4,199,294 79
PUBLIC WORKS, SIDEWALKS AND CURBING....	19,476 55
PUBLIC WORKS, WATER WORKS MAINTENANCE	162,156 74
RECEIVING TOMB, NORTH BURIAL GROUND...	13,842 02
RECORD COMMISSIONERS	966 68
RECORDER OF DEEDS	8,000 00
REFURNISHING RECORDER'S DEPARTMENT.....	565 02
RELIEF FUND FOR FIREMEN AND POLICEMEN..	2,096 88
RHODE ISLAND HOSPITAL.....	10,000 00
SCHOOL HOUSES AND LOTS, LOAN ACCOUNT....	5,544 22
SEALER OF WEIGHTS AND MEASURES.....	3,247 04
SENATOR ANTHONY PRIZE FUND.....	110 00
SEWER ASSESSMENTS	55 77
SEWER CONSTRUCTION.....	266,781 53
SINKING FUNDS	235,110 00
SINKING FUND, WATER LOAN, DUE JULY 1, 1906	260,507 58
STATE OF RHODE ISLAND.....	65,826 50
STATE TAX	311,441 66
SUPPORT OF THE POOR.....	34,617 59
TAX DEPARTMENT	19,916 31
TREASURY DEPARTMENT	29,778 56
WATER WORKS, CONSTRUCTION.....	59,624 26
WATER WORKS LOAN, DUE JULY 1, 1900.....	3,000 00
WEYBOSSET BRIDGE AND RIVER WALLS.....	5,488 14
	<hr/>
	\$5,717,447 84

BALANCE IN THE CITY TREASURY, SEPTEMBER

30, 1903..... 307,533 68

\$6,024,981 52

RECEIPTS.

ANNA H. MAN TRUST FUND.

National Eagle Bank, final dividend in liquidation	\$403 20
National Bank of North America, in reduction of capital stock.....	5,614 00
National City Bank of New York, for sale of U. S. bonds.....	129,043 75
Total	<u>\$135,060 95</u>

ANNA H. MAN TRUST FUND, INCOME.

Income from the fund to September 30, 1903	\$7,554 66
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BOARD OF COMMISSIONERS OF SINKING FUNDS.

United States, the consideration paid for a new post office site on Exchange Place...	\$1 00
City tax of 1895 with interest.....	12 41
City tax of 1896 with interest.....	12 40
City tax of 1897 with interest.....	11 77
City tax of 1898 with interest.....	27 28
City tax of 1899 with interest.....	273 88
City tax of 1900 with interest.....	77 94
City tax of 1901 with interest.....	4,135 48
Sale of the Fire Station known as the "Three Ones," on Exchange Place, to Edwin A. Briggs	875 00
Total	<u>\$5,427 16</u>

CHARLES H. SMITH TRUST FUND.

Rhode Island Hospital Trust Company (Participation Account), dividends to May 1, 1903	\$35 91
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CITY LICENSES.

Receipts for licenses and commissions issued as follows:

Constable under the Bird Law.....	\$1 00
Inspector of Beef and Pork.....	1 00
Inspector and Measurer of Carpenters', Masons' and Painters' work.....	1 00
Inspector of Milk.....	1 00
Pound Keeper.....	1 00
Quarantine Sentinel.....	1 00
Superintendent of the Burial of Deceased Soldiers and Sailors.....	1 00
Viewer of Fences.....	1 00
Surveyors and Corders of Wood.....	2 00
Appraisers of Damage under the Dog Law...	3 00
Port Wardens.....	3 00
Lodging House licenses.....	4 00
Weighers of Cotton.....	4 00
City Gauger.....	5 00
City Weigher.....	5 00
Inspector of Kerosene.....	5 00
Inspector of Steam Boilers.....	5 00
Weighers of Coal and other Merchandise....	9 00
Shooting galleries.....	10 00
Swine licenses.....	14 00
Night-soil licenses.....	19 00
Surveyor of Lumber and deputies.....	21 00
Private Detectives.....	25 00
Transfer of licenses.....	38 00
Undertakers	59 00
Dealers in Second-Hand articles.....	85 00

Police Constables without power to serve civil process	\$99 00
Police Constables with power to serve civil process	100 00
Fireworks and gunpowder.....	222 00
Intelligence offices.....	280 00
Bowling alleys	430 00
Pawnbrokers	1,300 00
Auctioneers	1,500 00
Junk licenses	1,880 00
Hacks, lunch wagons, trucks, etc.....	3,268 00
Peddlers	3,972 50
Exhibitions and dances.....	4,914 00
Bagatelle, billiard, ping-pong, pool and scipio tables	5,407 50
Tavern and victualling licenses.....	12,773 00
Total	<u>\$36,470 00</u>

CITY TAX OF 1902.

Assessment for building in violation of law..	\$50 00
Part of city tax of 1902.....	3,138,715 56
Total.....	<u>\$3,138,765 56</u>

CONTINGENCIES.

Receipts from sale of coal.....	\$15,320 80
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DOG LICENSES.

Amount received for licenses.....	\$11,956 00
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FIRE DEPARTMENT.

Sale of manure.....	\$108 00
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FIRE AND POLICE LOAN, DUE NOVEMBER 1, 1932.

Sale of thirty-two 3 1-4 per cent registered bonds, at par, to the Board of Commissioners of Sinking Funds.....	\$258,000 00
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INTEREST.

Interest on sewer assessments.....	\$1,255 28
Interest on city tax of 1902.....	8,057 74
Interest on daily balances from the following banks:	
Industrial Trust Company.....	6,186 32
Rhode Island Hospital Trust Company	6,488 62
Merchants National Bank.....	6,657 69
Manufacturers Trust Company.....	7,394 39
Providence National Bank.....	7,408 89
National Bank of Commerce.....	7,431 04
Total	\$50,879 97

LIQUOR LICENSES.

Amount received for licenses.....	\$242,110 00
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LOAN ACCOUNT

City notes (see schedule).....	\$796,920 06
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MARY SWIFT BRAGUNN FUND.

Rhode Island Hospital Trust Co. (Participa- tion Account), dividends to May 1, 1903.	\$20 20
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MISCELLANEOUS.

The Rhode Island Co., one-half of one per cent. of gross earnings of Union Rail- road Co. in the district annexed from the town of Johnston, for the year ending June 30, 1903..	\$342 94
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Five per cent. of gross earnings of Providence Cable Tramway Co. for the year ending June 30, 1903	\$2,886 07	
Five per cent. of gross earnings of Union Rail- road Co. for the year ending June 30, 1903..	63,046 45	\$66,275 46
Narragansett Electric Lighting Co., five per cent of gross earnings for the year end- ing June 30, 1903.....		34,780 29
Providence Gas Co., three per cent of gross earnings for the year ending June 30, 1903		27,093 54
Providence Telephone Co., three per cent. of gross receipts from rental of telephones in the City of Providence for the year ending June 30, 1903	10,059 60	\$138,208 89
Expenses collected, viz.:		
City tax of 1895.....		3 65
City tax of 1896.....		3 65
City tax of 1897.....		3 65
City tax of 1898.....		7 15
City tax of 1899.....		54 75
City tax of 1900.....		9 25
City tax of 1901.....		174 60
City tax of 1902.....		81 25

Payments under agreements for removal of
dead animals:

Theodore S. Barnes and William Edmonds	\$375 00
William Edmonds	1,800 00
Dividends on expired insurance policies on school buildings:	
Providence Mutual Fire Insurance Co.	30 00
Pawtucket Mutual Fire Insurance Co.	66 00
City Clerk:	
Recording physicians' certificates.....	4 50
Filing partnership returns.....	12 25
Pound keepers' fees.....	3 00
Damages recovered from C. E. Brown for hens killed by dog.....	3 60
Postal Telegraph Cable Co., for removal of old wires	6 00
City Messenger, sale of city ordinances.....	24 00
Amounts on pay rolls and bill of C. E. Albro uncollected	78 15
City Treasurer, garnishee fees.....	136 55
Auctioneers' returns	152 25
Voluntary taxes of 1902.....	185 60
United States, for care and treatment of sea- men at the Small Pox Hospital.....	252 00
Board of Canvassers and Registration for certified copies of voting lists, etc.....	480 52
Sealer of Weights and Measures, fees.....	2,296 59
Municipal Court, fees.....	8,173 21
Recorder of Deeds, fees.....	8,466 26
Total.....	\$161,092 32

NORTH BURIAL GROUND.

Certificates	\$49 00
Rent of buildings.....	568 00

Sundry items		\$594 30
Tomb rent		600 70
Brick graves		2,335 00
Interments		3,201 00
Sale of lots.....	\$5,740 25	
Less five cents per square foot on 9,477 square feet of land sold during the year, transferred to the North Burial Ground Sinking Fund	473 85	5,266 40
Improvement of lots.....		13,834 91
Total.....		\$26,449 31

NORTH BURIAL GROUND SINKING FUND.

Five cents per square foot on 9,477 square feet of land sold during the year.....	\$473 85
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POLICE DEPARTMENT.

Police Court:

Interest on deposits.....	\$5 00	
Witness' fees	5 40	
Officers' fees	1,059 00	
Court fees	2,628 95	
Fines	4,244 01—	\$7,942 36
Fines and costs received at Providence Coun- ty Jail		154 70
Fees for registering dogs.....		1,055 10
State of Rhode Island, received by Chief of Police for officers' fees in Sixth District Court for commitments to State institu- tions		3,751 30
Total		\$12,903 46

PUBLIC BUILDINGS.

Sale of old flag poles.....	\$12 00
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PUBLIC PARKS, GENERAL ACCOUNT.

Davis Park:

Sale of wood.....	\$2 00	
Sale of grass.....	25 00	
Rent of lodge.....	99 96—	\$126 96
Sale of grass, Blackstone Boulevard.....		20 00
Total		\$146 96

PUBLIC PARKS, ROGER WILLIAMS PARK.

Percentage of receipts from the following:

Bicycle locks.....	\$21 65	
Weighing machines.....	43 28	
Carousal	772 38—	\$837 31
Use of baby carriages.....		25
Error in pay roll.....		1 50
Sale of skiff.....		19 95
Use of ice chairs.....		43 75
Rent of land for photograph building.....		50 00
Lawnng Elmwood Avenue.....		62 20
Sale of skate straps.....		67 70
Labor, sale of material, etc.....		75 35
Articles checked.....		92 85
Sale of wood.....		95 25
Use of road roller and watering cart.....		101 50
Repairing and sharpening skates.....		125 35
Use of skates.....		188 48
Sale of wool.....		237 60
Use of boats for fishing.....		543 40
Use of steam launches.....		771 80
Use of pony teams.....		870 45
Sale of birds and animals.....		1,857 29
Use of rowboats.....		2,914 33
Total		\$8,956 31

PUBLIC SCHOOLS.

Poll tax of 1900.....	\$7 00	
Poll tax of 1901.....	695 00	
Poll tax of 1902.....	18,735 80—	\$19,437 80
Bills of Aerated Distilled Water Co. and Bookkeeper Publishing Co., uncollected.		2 75
Sale of books and supplies.....		140 04
Sale of furniture and repairs on same.....		375 19
Tuition of non-resident pupils.....		10,611 20
State of Rhode Island.....		31,741 58
Total		\$62,308 56

PUBLIC WORKS, BRIDGES.

Labor, material, etc.....	\$220 66
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PUBLIC WORKS, HIGHWAYS.

Amounts on pay rolls, uncollected.....	\$45 00
Sale of manure and sweepings.....	1,174 00
Labor, material, etc.....	20,734 33
	<hr/>
Total	\$21,953 33

PUBLIC WORKS, LIGHTS.

Sale of lanterns and frames.....	\$6 00
Labor	31 17
Sale of old copper and iron.....	133 07
Total	<hr/> \$170 24

PUBLIC WORKS, SEWER MAINTENANCE.

Labor, material, etc.,.....	\$2,006 21
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PUBLIC WORKS, SIDEWALKS AND CURBING.

Sale of curbstone, etc.....	\$7,219 66
Assessments in city tax of 1902.....	17,184 00
Total	<u>\$24,403 66</u>

PUBLIC WORKS, WATER WORKS MAINTENANCE.

Amount on pay rolls, uncollected.....	\$5 70
Penalties	304 00
Rent of land and buildings.....	417 00
Sale of water meters, etc.....	14,316 77
Labor, material, etc.....	16,860 10
Total	<hr/> \$31,903 57

RENTS.

Land on Pallas street.....	\$18 00
Room in Bourn street school building.....	25 00
Land on Pond street.....	75 00
Land on Charles street.....	158 28
Wharf on South Water street.....	200 00
Part of Field's Point farm.....	500 00
Use of streets.....	1,100 00
City building, Market Square.....	3,000 00
Total.....	<hr/> \$5,076 28

ROGER WILLIAMS PARK, REVENUE.

Sale of junk.....	\$20 00
Sale of souvenirs.....	29 00
Use of swings.....	121 70
Rent of Casino.....	813 88
Total	<hr/> \$984 58

SENATOR ANTHONY PRIZE FUND.

Rhode Island Hospital Trust Co., (Participation Account), dividends to May 1, 1903.	\$106 25
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SEWER ASSESSMENTS.

Amount received.....	\$49,913 94
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SEWER CONSTRUCTION.

Labor, material, etc.....	\$2,000 50
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SINKING FUND WATER LOAN DUE JULY 1, 1906.

Excess of receipts from water rents, etc., over and above the expenses of managing the water works for the financial year ending September 30, 1903, including interest on bonds and loans issued on account of water works construction.....	\$260,507 58
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STREETS AND SEWERS.

Permits to build vaults under sidewalks....	\$325 00
Opening streets.....	1,446 00
Entering sewers.....	3,291 60
Total	\$5,062 60

SUPPORT OF THE POOR.

Amount on pay roll uncollected.....	\$2 75
Carting wood.....	10 15
In part payment of burial expenses.....	12 50
Sale of coal.....	47 50
Charles E. Hopkins, amount refunded for car of wood, overpaid.....	72 00
In part payment of transportation.....	112 28
Rebate on freight on wood.....	344 63
Sale of wood.....	11,770 92
Total	\$12,372 73

TAX DEPARTMENT.

Sale of lithograph copies of plats.....	\$452 50
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TREASURY DEPARTMENT.

Expenses collected on:	
Sewer assessments.....	\$174 07
Poll tax of 1900.....	1 50
Poll tax of 1901.....	171 75
Poll tax of 1902.....	1,581 50
City tax of 1902.....	3,976 38
Total	\$5,905 20

WATER RENTS.

Receipts for water.....	\$616,711 86
Less amount credited to the Sinking Fund for Water Loan due July 1, 1906, the same being the excess of receipts over cost of managing and interest.	260,507 58—\$356,204 28
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The receipts for the year, as per the foregoing account, amounted to.....	\$5,750,216 15
Balance of cash on hand September 30, 1902, as per City Auditor's annual report.....	274,765 37
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Total	\$6,024,981 52.

EXPENDITURES.

ANNA H. MAN TRUST FUND.

Invested in City of Providence notes..... \$137,900 00

ANNA H. MAN TRUST FUND, INCOME.

Care and maintenance of property..... \$796 66

ASYLUM WALLS AND BUILDINGS.

Repairs on buildings..... \$1,994 27

AUDITING DEPARTMENT.

Salary of City Auditor.....	\$3,500 00
Salaries of assistants.....	3,337 14
Printing and binding.....	200 95
Rent of telephone.....	120 00
Stationery and supplies.....	90 87
Expense of surety bond.....	7 50

Total \$7,256 46

BLACKSTONE PARK LAND ACCOUNT.

Land	\$40,250 00
Gower street, City Council resolution No. 412, series of 1902.....	1,400 00
Building roadway, Angell street, City Council resolution No. 375, series of 1902.....	800 00
Angell and Gower streets, City Council reso- lution No. 325, series of 1903.....	32 25

Total \$42,482 25

BOARD OF COMMISSIONERS OF SINKING FUNDS.

Paid said commissioners in accordance with
Chapter 112 of the City Ordinances, ap-
proved September 11, 1901..... \$16,163 80

CENTRAL FIRE STATION, ETC.

Central Fire Station, City Council resolutions
Nos. 321 and 453, series of 1900:

Construction \$30,505 07

Furnishing 1,413 13— \$31,918 20

Remodel Station No. 12, Smith and Orms
streets, City Council resolution No. 373,
series of 1900:

Construction \$7,954 73

Furnishing 893 35— 8,848 08

Total \$40,766 28

CHATTLET STREET BRIDGE.

Abutments and approaches..... \$34,765 33

Metal superstructure..... 19,670 39

Total \$54,435 72

CITY CLERK'S DEPARTMENT.

Salary of City Clerk..... \$3,500 00

Salaries of assistants..... 3,434 11

Printing and binding..... 390 46

Stationery and supplies..... 198 29

Rent of telephone..... 120 00

Expense of surety bonds..... 18 00

Carriage hire..... 1 50

Total \$7,662 36

CITY COUNCIL.

Salaries of Aldermen.....	\$4,853 57
Salaries of Common Councilmen.....	11,959 61
Serving notices and summoning jurors.....	1,233 00
Expenses of committees to lay out streets...	1,121 45
Advertising	493 10
Printing and binding.....	102 23
Carriages for funeral of Robert E. Smith....	29 50
Carriages for funeral of Louis E. Davis.....	22 50
Gavels	17 75
Supplies	16 40
Engrossing resolutions on death of Robert E. Smith	14 00
Carriage for chaplain, inauguration day....	1 25
Expense of Joint Standing Committees, viz.:	
Highways	19 05
Lights	10 50
City Property.....	10 25
Claims	8 50
Harbor	5 60
Railroads	5 00
Parks	2 75
Expense of Joint Special Committees, viz.:	
Mayor's portrait.....	40 15
Railroad legislation.....	8 50
Price of gas.....	5 75
New Post Office.....	4 50
Expense of Board of Aldermen Committee on Streets	10 00
Total	\$19,994 91

CITY HALL.

Salary of City Messenger.....	\$1,600 00
Pay rolls, Janitors, etc.....	10,719 99
Fuel	2,549 14
Lights	1,950 37

Water	\$1,700 00
Furnishings and repairs on same.....	2,037 71
Revolving doors.....	1,220 00
Carpenters', masons' and painters' work, repairs, etc.....	1,717 30
Plumbing, steam and gas pipe fitting and electrical work.....	1,262 39
Hardware, tools and supplies.....	504 97
Ice	256 73
Washing towels.....	199 71
Awnings	169 25
Printing, binding and stationery.....	168 73
Rent of telephone.....	120 00
Carriage hire.....	99 83
Removing ashes.....	91 00
Removing snow from sidewalks and steps....	40 05
Flags and flag pole.....	34 15
Cartage	15 00
Elevator repairs.....	14 75
Car fares.....	10 00
Inspecting boilers.....	8 00
Miscellaneous	25
Total	\$26,489 32

CLERK OF COMMON COUNCIL AND CLERK OF COMMITTEES.

Salary of clerk.....	\$3,300 00
Assistance in clerk's office.....	862 64
Printing and binding.....	144 03
Rent of telephones.....	132 00
Stationery, etc.....	80 11

Total **\$4,518 78**

CONTINGENCIES.

Claims settled by Committee on Pending Suits:

Agnes Gagnon, personal injuries received on account of defect in sidewalk on Regent avenue, near corner of Academy avenue..	\$1,300 00
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J. C. Walsh and Co., for failure on part of the city to allow them to perform and complete a contract to alter and enlarge the Smith street fire station.....	\$1,100 00
Margaret McCarthy, Executrix, for damages on account of the loss of the life of Daniel McCarthy on Washington bridge.....	1,000 00
Margaret A. Bligh, for personal injuries received by falling over an obstruction on sidewalk on Chalkstone avenue.....	500 00
William H. Hanley, injuries and damages sustained because of a defect in Smithfield avenue	400 00
A. S. Waterman and Co., fatal injury to horse caused by stepping into a hole surrounding a manhole cover on Fountain street	350 00
Executions of the courts:	
H. G. Eich, et al, executors Eva Eich, deceased	3,091 43
William Brown, personal injuries received on Snow street.....	2,572 22
Edward W. Everson, surviving partner of Everson and Liddle, and assignee of Frederick E. Shaw, for balance due for excavating mud, etc., from Cunliffs Pond in Roger Williams Park (the other part of work being paid by bill in Roger Williams Park Improvement Loan Account, approved in 1896-97 in audit No. 646)...	1,440 09
Margaret R. Keegan, for personal injuries received by being trampled upon by a horse belonging to the City of Providence near the City Yard on Eddy street.....	1,000 00
Stephen Sweet, injuries to self, and damages to horse and buggy on the railroad bridge on Eddy street.....	534 82

Albert W. Knight, damages to a party wagon by limb of a tree on Fruit Hill Avenue..	\$135 05
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ORDERS OF THE CITY COUNCIL.

Furnishing coal to citizens of Providence....	17,636 06
Fourth of July celebration.....	2,995 96
Furnishings for Central Fire Station, Ex- change Place.....	2,979 75
Concreting, etc., at Central Fire Station, Ex- change Place	1,922 89
Band concerts at Roger Williams Park.....	2,500 00
Locating and maintaining bath houses.....	1,185 20
Ice for public drinking fountains.....	1,000 00
William Gilbane and Brother, damages for delay in constructing sewer and removal of old sewer in land under the new fire station on Exchange Place.....	750 00
Portrait of Mayor Miller, and framing same	569 00
Pedestal for bronze statue "The Pancratiast," presented to the city by Mr. Paul Bajnotti	500 12
Evelyn Bacon, personal injuries received by fall on the sidewalk on Howell street..	500 00
Olivia I. Park, personal injuries received by defect in sidewalk on Knight street.....	400 00
Catherine E. Quinn, personal injuries re- ceived by defect in sidewalk on Broadway	300 00
Salary of supervising engineer under the Smoke Act	256 22
John R. Shirley, damage to estate at corner of Dudley and Culver streets, by surface water	250 00
Florida T. B. Burlingame, personal injuries received by defect in sidewalk on Wey- bosset street.....	250 00
D. F. Holmes & Co., interest on check depos- ited in lieu of a bond, cashed by City Treasurer	29 16

Expense of sale of "Old Fire Station" on Exchange Place.....	\$28 00
Awards by Board of Aldermen on layout of Barre street from Bell street to Ridge street	700 00
Water for drinking troughs.....	6,915 00
Killing, burying and listing dogs.....	3,015 10
Burial of, and furnishing gravestones for deceased veterans of the Civil War.....	806 14
Appropriations for Memorial Day.....	800 00
City taxes refunded.....	535 77
Expert examination of accounts of City Treasurer	500 00
Displaying flags and ringing bells on holidays	336 00
City Gauger for office expenses.....	150 00
Ringing bell of Charitable Baptist Society..	125 00
Award of commissioners, as confirmed by the Supreme Court, on the layout of Peace street	93 00
Inspection of electric wires.....	86 00
Daily and Sunday Journal and binding....	16 91
Town of East Providence, tax of 1902.....	7 00
Books for City Library.....	4 08
Total	\$61,565 97

DAVIS PARK IMPROVEMENT LOAN ACCOUNT.

Improvement of land, City Council resolution No. 400, series of 1897.....	\$135 85
Playground, City Council resolution No. 211, series of 1903.....	300 38
Total	\$436 23

DOG LICENSES.

Damages paid under authority of the Dog Law	\$142 60
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ELECTIONS.

Salaries of Board of Canvassers and Registration	\$7,419 35
Pay of Wardens, Clerks and Supervisors.....	3,780 00
Clerical assistance to Board of Canvassers and Registration	2,938 62
Printing and binding.....	3,906 84
Voting district expenses.....	2,592 75
Rent of voting places.....	1,612 00
New voting booths.....	965 00
Carriages	466 13
Advertising	217 61
Office expenses.....	125 03
Rent of telephone.....	90 25
Lunches for Board of Canvassers and Registration	65 35
Lunches for police.....	53 75
Total	\$24,232 68

EXECUTIVE DEPARTMENT.

Salary of Mayor.....	\$5,000 00
Salaries of Clerk and Messenger.....	1,265 65
Mayor's appropriation.....	500 00
Printing, stationery and supplies.....	277 78
Rent of telephones.....	132 00
Temporary assistance.....	29 14
Care of clocks.....	25 00
Telegraph and telephone messages.....	12 02
Post office box rent.....	8 00
Carriage hire.....	3 00
Total	\$7,252 59

FIRE DEPARTMENT.

Salaries:

Board of Fire Commissioners	\$2,400 00	
Chief Engineer.....	1,980 23	
Deputy Chief Engineer....	1,484 90	
Clerk	1,980 10	
Assistant Engineers.....	4,144 55	
Superintendent of Fire Alarms	1,782 05	
Fire alarm service men....	7,797 90	
Permanent men.....	249,067 55	
Emergency men.....	3,743 28	
Disabled firemen.....	959 15	
Pension fund.....	6,645 01—	\$281,984 72
Water		30,986 13
Hay, grain, feed, etc.....		11,887 59
Apparatus and repairs.....		10,858 84
Fuel		5,784 03
Fire alarm telegraph and telephone system..		3,326 46
Horses		3,061 00
Lights		2,840 76
Horse shoeing.....		2,777 58
Supplies		2,032 66
Extra horse hire and help.....		1,012 02
Attendance of veterinary surgeon and dentist		899 88
Furniture, bedding and toweling.....		801 47
Laundry work.....		726 58
Harnesses and repairs.....		392 29
Stationery, printing and binding.....		244 69
Ice		243 30
Examination of firemen by physicians.....		53 00
Rent of land, Harrison street.....		50 00
Expenses of chief attending convention of Fire Engineers.....		28 00
Carriage hire.....		9 00
Total		\$360,000 00

HARBOR.

Salary of Harbor Master.....	\$1,200 00
Dredging harbor.....	3,491 00
Launch, City Council resolution No. 49, series of 1903.....	500 00
Office and launch expenses, City Council reso- lution No. 108, series of 1903.....	217 30
Total	<u>\$5,408 30</u>

HEALTH DEPARTMENT.

Salary of Superintendent of Health.....	\$2,333 34
Removal of swill.....	27,590 04
Board and treatment of persons afflicted with contagious diseases.....	6,436 03
Clerks and inspectors.....	4,381 50
Collecting returns, reporting and recording births.....	\$2,802 75
Reporting and recording deaths	1,289 30
Reporting and recording mar- riages	898 95—
Horse, wagon and ambulance expenses.....	1,725 72
Expenses of small pox hospital.....	1,595 69
Vaccination expenses.....	1,072 90
Disinfection expenses.....	1,002 17
Printing, stationery and supplies.....	857 33
Men at dumping grounds.....	469 50
Fees of quarantine sentinel.....	350 00
Ascertaining and certifying to cause of deaths	286 00
Rent of telephones.....	169 00
Car fares.....	70 00
Advertising	60 96
Inspection of lodging houses.....	50 00
Cleaning ward room.....	24 00
Miscellaneous	15 20

Laboratory expenses.....	\$9 42
Cleaning vault.....	5 00
Messenger service.....	3 05
Total	\$53,497 85

HIGHWAYS, SPECIAL ACCOUNT.

Douglas avenue, from Chad Brown street to Admiral street, City Council resolution No. 258, series of 1901.....	\$5,096 38
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INSPECTOR OF BUILDINGS.

Salary of Inspector of Buildings.....	\$1,775 00
Salaries of assistant and clerk.....	2,137 87
Rent of telephone.....	120 00
Stationery and supplies.....	61 20
Printing and binding.....	55 58
Total	\$4,149 65

INSPECTOR OF MILK.

Salary of Inspector of Milk.....	\$2,000 00
Salaries of collectors of samples.....	1,564 28
Office assistance	874 20
Office supplies.....	576 32
Horse and wagon expenses.....	443 94
Polariscope	218 50
Analyses of milk.....	113 80
Printing and stationery.....	107 40
Advertising	81 73
Rent of telephone.....	60 00
Total	\$6,040 17

INSPECTOR OF PLUMBING.

Salary of Inspector of Plumbing.....	\$1,721 77
Salaries of assistants and clerk.....	2,972 14

Horse and wagon account.....	\$329 19
Car fares	252 60
Stationery and supplies.....	175 90
Rent of telephone.....	120 00
Printing and binding.....	103 40
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Total	\$5,675 00

INTEREST.

Interest on notes for the following accounts:

Sewer construction.....	\$10,949 22
School Houses and Lots, Loan Account.....	7,597 78
Central Fire Station, etc.....	2,647 05
Weybosset Bridge and River Walls.....	1,617 78
Chattlet Street Bridge.....	940 00
Water Works.....	686 11
Blackstone Park Land Account.....	635 56
Police Station, Seventh District.....	617 78
Casino, Roger Williams Park.....	407 44
Refurnishing Recorder of Deeds Department	31 22
Mount Pleasant Fire Station.....	6 00
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Total	\$26,135 94

INTEREST ON LOANS.

Davis Estate Loan, due July 1, 1909.....	\$3,000 00
Fire and Police Loan, due Nov. 1, 1932.....	4,192 50
Highway Loan, due Jan. 1, 1912.....	4,500 00
Highway Loan, due May 1, 1924.....	48,000 00
Highway Loan, due April 1, 1927.....	20,000 00
Highway Loan, due May 1, 1930.....	9,000 00
Johnston Bonds.....	7,240 00
Johnston Annexation Loan, due Sept. 1, 1939	4,980 00
Park Loan, due March 1, 1922.....	20,000 00
Park Loan, due May 1, 1947.....	23,590 00
Pub. Imp. Loan, due May 1, 1929.....	2,520 00

Pub. Imp. Loan, due May 1, 1937.....	\$22,400 00
School Loan, due July 1, 1911.....	12,000 00
School Loan, due May 1, 1925.....	12,000 00
School Loan, due April 1, 1927.....	20,000 00
School Loan, due May 1, 1929.....	12,250 00
Sewer Loan, due July 1, 1921.....	45,000 00
Sewer Loan, due March 1, 1922.....	20,000 00
Sewer Loan, due April 1, 1923.....	20,000 00
Sewer Loan, due May 1, 1925.....	32,000 00
Sewer Loan, due June 1, 1926.....	20,000 00
Sewer Loan, due April 1, 1927.....	12,000 00
Sewer Loan, due April 1, 1928.....	7,000 00
Sewer Loan, due May 1, 1929.....	7,500 00
Sewer Loan, due May 1, 1930.....	9,000 00
Sewer Loan, due May 1, 1931.....	9,000 00
Water Loans, due July 1, 1906.....	77,700 00
Water Loan, due Sept. 1, 1916.....	16,905 00
Water Loan, due April 1, 1923.....	32,680 00
Water Loan, due June 1, 1926.....	8,000 00
Water Loan, due April 1, 1927.....	10,000 00
Water Refunding Loan, due May 1, 1930....	79,980 00
Weybosset Bridge Loan, due May 1, 1929....	9,450 00
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Total	\$641,887 50

LAW DEPARTMENT.

Salary of City Solicitor.....	\$6,000 00
Salaries of assistants.....	4,999 99
Miscellaneous legal expenses.....	3,947 90
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Total	\$14,947 89

LOAN ACCOUNT

City notes (see schedule).....	\$554,223 91
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MOUNT PLEASANT FIRE STATION.

Advertising	\$10 56
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MUNICIPAL COURT.

Salary of Judge of Municipal Court.....	\$2,000 00
Salary of clerk of Municipal Court.....	1,700 00
Salaries of assistants.....	2,227 86
Printing and binding.....	306 99
Stationery and supplies.....	284 11
Rent of telephone.....	120 00
Rhode Island Society Prevention of Cruelty to Children, Chapter 115, General Laws, amended by Chapter 475, Public Laws of Rhode Island, 1897.....	42 50
Expense of surety bond.....	4 50
Total.....	<hr/> \$6,685 96

NORTH BURIAL GROUND.

Salary of Superintendent.....	\$1,500 00
Salaries of clerks.....	1,602 11
Labor on improvements.....	11,656 75
Labor on interments.....	2,090 50
Turf, loam, fertilizer and manure.....	1,497 45
Labor on avenues.....	1,416 27
Horses, wagons, harnesses, etc.....	936 02
Water	745 03
Hardware, tools and supplies.....	598 13
Buildings, repairs and furnishings.....	597 63
Labor on grading.....	554 47
Fuel	538 06
Brick, stone, cement, drain pipe.....	379 62
Trees, shrubs, grass and flower seeds.....	336 63
Bell striking machine.....	217 30
Lumber	171 79
Rent of telephones.....	120 00
Printing and stationery.....	117 42
Expense of Superintendent attending conven- tion at Rochester, N. Y., City Council resolution No. 242, series of 1903.....	75 00

Extension pieces for gates.....	\$25 00
Water meter	18 00
Mowing grass	13 50
Freight and cartage.....	11 15
Interest on Receiving Tomb Loan.....	6 67
Car fares	6 00
Cleaning cesspool	4 00
Expense of surety bond.....	3 75
Total.....	\$25,238 25

OLNEYVILLE FREE LIBRARY ASSOCIATION.

Aid of Library.....	\$1,000 00
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POLICE DEPARTMENT.

SALARIES.

Police Commissioners	\$8,893 81
Secretary	1,500 00
Clerk of Commissioners.....	1,000 00
Stenographer	468 00
Drill Master	388 48
Police Justices	2,000 00
Deputy Chief	2,473 38
Deputy Chief	1,975 84
Surgeon	1,198 60
Superintendent of Hacks.....	1,138 87
Clerks	2,192 80
Detectives	5,524 54
Warrant Officers	2,162 14
Messenger	780 00
Signal service men.....	2,747 89
Matrons	886 62
Hostler	738 00
Captains	9,414 19
Lieutenants	9,320 22
Sergeants	16,747 67
Engineers at Central Station..	1,370 00

Janitors	\$5,627	21	
Patrol Drivers.....	10,524	00	
Superannuated men.....	4,023	10	
Patrolmen	253,961	39	
Pension Fund	9,947	87—	\$357,004 62
Coal		5,520	57
Barn expenses.....		3,917	54
Signal service and telephone lines.....		3,749	83
Repairs on buildings.....		3,721	53
Gas		2,592	45
Electric lights.....		1,226	94
Supplies		1,116	74
Furniture, repairs, etc.....		1,048	24
Postage, printing, etc.....		973	76
Office expenses.....		971	53
Water		954	94
Horse shoeing.....		847	87
Food for prisoners.....		729	31
Advertising		692	64
Horses		675	00
Miscellaneous		596	18
Costs of cases discontinued in Sixth District Court		532	60
Laundry work.....		486	57
Warrant officers' expenses.....		458	72
Wagons, repairs, etc.....		451	39
Board of Prisoners at Providence County Jail		337	86
Ice		229	45
Veterinary services.....		204	25
Harnesses, repairs, etc.....		172	51
Wood		168	50
Removing ashes.....		164	48
Expenses of Chief of Police to New Orleans. International Association of Chiefs of Police		100	00
Expense of surety bonds.....		61	00

Traveling expenses.....	54 58
Directories	52 00
Detectives' expenses.....	51 02
Carriage hire.....	39 25
Telephone and telegraph messages, freight, ex- press, etc.....	34 76
Horse hire.....	20 00
Board and treatment of persons having de- lirium tremens	17 00
Inspecting boilers	12 00
Medical attendance in emergency cases.....	8 00
Bicycle repairs	3 50
Photographs of criminals.....	60
Total	\$389,999 73

PRINTING.

Printing and binding City Documents and City Council resolutions.....	\$5,949 67
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PROVIDENCE LYING-IN HOSPITAL.

Aid of Hospital.....	\$2,000 00
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PROVIDENCE PUBLIC LIBRARY.

Aid of Providence Public Library.....	\$20,000 00
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PUBLIC BUILDINGS.

Salary of Superintendent.....	\$2,075 00
Salary of Clerk.....	1,303 58
Public School Buildings, repairs, etc.....	50,922 73
Fire Department Buildings, repairs, etc.....	10,957 04
Miscellaneous Public Buildings, repairs, etc.	3,276 00
Removing ashes and contents of cesspools..	2,443 50
Foreman and teamster.....	1,500 25
Horses, wagons, harnesses, and stable ex- penses	1,239 71
Rent of Pioneer Hall lot.....	275 00

Rent of telephones.....	\$231 25
Car fares for carpenters and painters.....	220 65
Printing, stationery and office expenses.....	92 83
City scales.....	53 92
Miscellaneous	17 55
Expense of surety bond.....	7 50
Flags and flag poles.....	3 24
Grade and improve city lots in front of State House and State Normal School, City Council resolution No. 178, series of 1902	200 00
Bath houses put in order, City Council resolu- tion No. 165, series of 1903.....	111 57
Michael Lyons, City Council resolution No. 334, series of 1902.....	67 25
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Total.....	\$74,998 57

PUBLIC PARKS, GENERAL ACCOUNT.

Salary of Superintendent of Parks.....	\$1,798 92
Salary of Clerk of Park Commissioners.....	582 20
Salary of Clerk to Superintendent.....	626 00
Stationery, printing and supplies.....	208 54
Expense of surety bond.....	3 50
Expended on the following parks:	

Davis..	\$2,217 24
City Hall.....	847 05
Hayward	589 74
Tockwotton	328 40
Dexter Training Field....	282 55
Hopkins	162 78
Blackstone	128 96
Abbott	126 73
Roger Williams Square...	107 18
Prospect Terrace.....	86 43
Franklin	56 66

Washington	\$45 75	
Fenner	14 25	
Columbus	8 00—	\$5,001 72
Total.....		\$8,220 88

PUBLIC PARKS, ROGER WILLIAMS PARK.

Care and improvement of grounds.....	\$16,254 07
Boats and launches, care and repairs.....	5,278 04
Buildings, repairs and furnishings.....	4,259 94
Menagerie, food for and care of animals.....	3,641 79
Stable, food for and care of animals.....	2,733 36
Museum, salary of curator, etc.....	2,571 60
Ponies, pony wagons, care, feed, etc.....	1,893 88
Fuel	1,225 13
Water	1,065 05
Horses, wagons, harnesses, etc..	819 70
Insurance, museum building, City Council resolution No. 117, series of 1903.....	300 00
Total.....	\$40,042 56

PUBLIC SCHOOLS.

SALARIES.

Superintendent and assistants	\$6,480 00
Secretary and Clerk of Stand- ing Committees.....	2,200 00
Clerks	2,889 50
Purchasing Agent.....	1,500 00
Truant officer	1,500 00
Assistant to Truant Officer...	480 00
Agent, Com'tee on school houses	600 00
Superintendent of Janitors....	600 00
Supervisors of drawing.....	3,800 00
Supervisors of physical training	1,200 00
Music teachers	4,151 65
Permanent substitutes	2,307 50

Director of Kindergartens....	\$1,000	00	
Supervisor of penmanship.....	750	00	
Librarian, teachers' library...	600	00—	\$30,058 65

And teachers in the following schools:

• HIGH SCHOOLS.

English	\$34,933	33	
Classical	18,576	17	
Manual Training.....	27,736	67	
Hope street	25,465	34—	106,711 51

GRAMMAR SCHOOLS.

Academy avenue	\$11,188	97	
Branch avenue	7,625	00	
Bridgham	8,365	44	
Broad street	6,983	79	
Candace street	11,298	09	
Doyle avenue	11,693	32	
Federal street	9,399	29	
Manton avenue	4,450	66	
Messer street	9,410	92	
Oxford street	10,399	52	
Peace street	9,913	64	
Point street	10,270	42	
Roosevelt street	7,068	97	
Thayer street	8,760	07	
Vineyard street	6,779	85—	133,607 95

• PRIMARY SCHOOLS.

Africa street	\$2,461	50	
Almy street	2,768	50	
Althea street	2,438	50	
America street	1,800	83	
Amherst street	2,452	21	
Arnold street	7,122	80	
Atwells avenue	4,194	25	

Beacon avenue	\$4,389 00
Bellevue avenue	2,794 42
Benefit street	6,335 42
Berkshire street	4,270 54
Berlin street	3,594 33
Bourn street	2,095 07
Branch avenue	2,431 92
Calhoun avenue	3,306 50
California avenue	2,619 66
Camp street	2,293 25
Carpenter street	2,438 16
Chalkstone avenue	4,612 08
Charles street	4,457 74
Chattlet street	2,418 59
Chester avenue	2,619 98
Courtland street	2,287 25
Covell street	2,494 25
Daniel avenue	2,382 00
East street	1,219 84
East Manning street	2,445 25
Eddy street	2,080 16
Elm street	3,540 41
Elmwood avenue	3,594 01
Federal street	2,096 67
Friendship street	2,453 25
Graham street	2,393 50
Greeley street	4,615 67
Grove street	4,195 00
Hammond street	3,916 25
Harriet street	2,450 92
Harris avenue	2,223 05
Hendrick street	2,451 50
Highland avenue	2,447 83
Ives street	2,451 50
Julian street	4,261 13
Kelly street	3,554 50

Killingly street	3,136 00	
Montague street	3,677 08	
Mt. Pleasant avenue	4,026 14	
Niagara street	2,447 50	
Plain street	2,367 82	
Potter avenue	5,255 56	
Public street	2,449 25	
Putnam street	4,814 50	
Ralph street	3,859 67	
Ring street	2,768 68	
River avenue	2,375 24	
Roger Williams avenue.....	2,363 34	
Ruggles street	2,450 50	
Sisson street	1,988 42	
Slater avenue	1,752 13	
Smith street	3,710 75	
Somerset street	2,379 75	
State street	2,295 92	
Summer street	3,117 25	
Thayer street	1,250 50	
Thurber's avenue	3,599 58	
Veazie street	4,116 23	
Warren street	2,450 83	
Webster avenue	3,341 42	
Willard avenue	2,338 75	
Willow street	5,536 14	
Beacon avenue, Kindergarten..	479 25—	\$213,817 39

SPECIAL SCHOOLS.

Individual work	13,074 93	
Backward children	2,247 00—	15,321 93

Total salaries..... \$449,517 43

GENERAL EXPENSES.

Pay-rolls, Public School Janitors	\$48,881 58
Janitors' supplies	1,665 23

Horse and carriage for Superintendent of Janitors	\$642 96
Coal	33,126 33
Water	3,158 13
Light	2,794 28
Wood	2,112 25
Furniture and labor on same..	7,498 21
Telephones	1,244 73
Rent and repairs of leased property	1,055 00
Removing snow and ice.....	992 03
Books	13,276 28
Stationery and supplies.....	17,712 38 .
Supplies, Manual Training High School	872 82
Books for library	437 64
Rent of and tuning pianos....	542 66
Tuition at State Normal School	6,954 96
Tuition at Rhode Island School of Design	1,516 50
Tuition, Town of Cranston....	255 00
Instruction in typewriting....	799 50
Miscellaneous services	810 85
Engrossing dip'omas	286 00
Printing and binding.....	3,558 88
Freight, express and cartage ..	1,299 71
School census	1,179 83
Car fares	906 90
Truant Officer's expenses.....	367 47
Commitments to State Institutions by Truant Officer ..	20 30
Horse and carriage for Superintendent of Schools.....	300 00
Carriage hire	123 37
Insurance on stock in Slade building	96 50

Laundry work	\$61 47	
Lantern slides	59 39	
Arbor Day expenses.....	50 85	
Advertising	41 38	
Reeves' American Band and Or- chestra	25 00	
Miscellaneous	18 50	
Mounting gavel	15 75	
Lecturer	15 00	
Services of page.....	12 00	
Traveling expenses	5 85—	\$154,793 47

EVENING SCHOOLS.

Salaries of principal and teach- ers	\$25,461 00	
Janitors' pay-rolls	2,078 40	
Coal	2,690 57	
Light	1,916 25	
Water	161 01	
Books	559 23	
Stationery and supplies.....	725 73	
Advertising	321 17	
Printing and binding	299 59	
Rent of leased property.....	175 00	
Rent of and tuning pianos....	51 34	
Car fares	43 30	
Miscellaneous services.....	39 00	
Carriage hire	31 25	
Furniture and labor on same..	8 62	
Miscellaneous	8 40—	34,569 86
Total.....		\$688,880 76

PUBLIC WORKS, BRIDGES.

Washington bridge:		
Attending draw	\$2,030 66	
Repairs	6,489 44—	\$8,520 10

Point street bridge:

Attending draw.....	\$3,988 75	
Repairs	2,401 95—	\$6,390 70

Red bridge:

Attending draw	\$2,097 64	
Repairs	990 81—	3,088 45

Adelaide avenue bridge, City Council resolution No. 73, series of 1903.....

5,998 84

Sundries 763 47

Horses, wagons, harnesses, etc..... 693 02

Lumber, hardware, etc..... 385 85

Tools 364 88

Rent of keeper's house at Washington bridge. 134 00

Car fares 75 00

Fuel, light, etc., building at city yard..... 10 99

Rent of telephone 10 72

Repairs on the following bridges:

Crawford street..... 369 94

Branch avenue 195 87

Manton avenue 159 20

Francis street 129 82

Exchange 75 85

Valley street, north span..... 68 95

Charles street 63 40

Smithfield avenue 61 75

Valley street, south span..... 50 41

Weybosset 48 51

Mill street 38 77

Atwells avenue..... 28 20

Randall street 27 68

Burnside 27 66

Wanskuck 19 11

Eagle street 16 69

Nash lane 16 07

Washington row..... 15 18

Park street..... 14 99

Smith street	\$11 80
Cemetery street	11 48
West River street	9 06
Geneva	8 80
Veazie street	8 60
Stevens street	7 15
Branch avenue culvert	6 11
Branch avenue, bridge near Wanskuck..	6 10
Manton village	3 86
Promenade street	3 16
Hawkins street	1 85
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Total.....	\$27,942 04

PUBLIC WORKS, CITY ENGINEER'S DEPARTMENT.

Salary of City Engineer.....	\$4,500 00
Salaries of assistants.....	37,255 77
Salaries of clerks.....	3,167 69
Car fares	1,012 60
Supplies, drawing material, etc.....	999 15
Instruments and repairs.....	623 55
Rent of telephone.....	10 72
Carriage hire.....	4 00
Sundries	3 83
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Total.....	\$47,577 31

PUBLIC WORKS, HIGHWAYS.

Salary of Superintendent.....	\$1,772 86
Cleaning and watering streets.....	59,671 36
Repairs on unpaved streets.....	57,821 17
Crushed stone, material and labor.....	54,557 03
Horses, wagons, harnesses, including barn ex- penses	15,202 05
Repairs on paved streets.....	12,363 23
Paving and crosswalk stone.....	11,076 22

Blacksmith and wheelwrights' supplies.....	\$9,924 70
Removing snow and ice.....	8,273 74
Steam rollers, repairs and supplies.....	4,794 45
Tools, implements, etc.....	3,998 50
Labor and material.....	3,803 29
Repairs on stone crusher.....	3,510 18
Building driveways	1,370 38
Watchman at city yard.....	625 72
Sundries	382 78
Office expenses, city yard.....	331 11
Fencing streets	108 85
Repairs on buildings, city yards.....	94 55
Car fares	75 00
Rent of telephone.....	21 40
Hastings and Ledge streets, order of Board of Aldermen, passed June 18, 1903.....	8,902 17
Manton avenue, from Unit street to Chalk- stone avenue, City Council resolution No. 232, series of 1902.....	8,267 01
Grand View street, from Knowles street to North Main street, order of Board of Aldermen, passed November 20, 1902....	3,221 95
Promenade street, from Leland street to Cal- verly street, order of Board of Aldermen, passed April 16, 1903.....	2,726 00
Woodbine street, from North Main street to Camp street, order of Board of Aldermen, passed October 16, 1902.....	2,660 24
Silver Spring street, from Ashton street to Northup avenue, order of the Board of Aldermen, passed June 18, 1903.....	2,562 35
Rhode Island avenue, from Oriole avenue to Angell street, order of Board of Alder- men, passed November 20, 1902.....	1,833 43
Hamlin street, from Roger Williams Park to Elmwood avenue, order of Board of Al- dermen, passed December 18, 1902.....	1,694 27

Sears avenue, from Atwells avenue to its northerly termination, order of Board of Aldermen, passed December 18, 1902....	\$1,492 37
Lenox avenue, from Melrose street to Hamilton street, order of Board of Aldermen, passed December 18, 1902.....	1,475 49
Phillips street, from Hope street to Morris avenue, order of Board of Aldermen, passed November 20, 1902.....	1,458 41
Bolander street, from Abbott street to Grand View street, order of Board of Aldermen, passed October 16, 1902.....	1,430 71
Moses Brown street, from Angell street to South Angell street, order of Board of Aldermen, passed April 16, 1903.....	1,377 99
Wallace street, from Webster avenue to Priscilla avenue, order of Board of Aldermen, passed June 18, 1903.....	1,370 85
Tuxedo avenue, from Amherst street to Atwells avenue, order of Board of Aldermen, passed May 21, 1903.....	1,280 93
Oriole avenue, from end of curb to Rhode Island avenue, order of Board of Aldermen, passed November 20, 1902.....	1,185 30
Primrose street, from Vinton street to Vernon street, order of Board of Aldermen, passed October 16, 1902.....	1,024 58
Promenade street, from Park street to Leland street, City Council resolution No. 380, series of 1901.....	1,011 55
Bellevue avenue, from Elmwood avenue to Bucklin street, order of Board of Aldermen, passed October 16, 1902.....	998 73
Tenth street, from North Main street to Highland avenue, order of Board of Aldermen, passed October 16, 1902.....	942 48

Suffolk street, from Admiral street to Salina street, order of Board of Aldermen, passed November 20, 1902.....	\$893 73
Hazael street, from Douglas avenue to General street, order of Board of Aldermen, passed May 21, 1903.....	877 43
Laurel Hill avenue, from present end of curbing to Pocasset avenue, order of Board of Aldermen, passed October 16, 1902....	869 96
President avenue, from Wayland avenue westerly, order of Board of Aldermen, passed January 16, 1902.....	778 93
Calais street, from Edith street to West Park street, order of Board of Aldermen, passed October 16, 1902.....	517 67
Douglas avenue, from Chad Brown street to Admiral street, City Council resolution No. 258, series of 1901.....	373 39
Oxford street, from Devine street west about 50 feet, order of Board of Aldermen, passed October 16, 1902.....	319 10
Calais street, from Jewett street to West Park street, order of Board of Aldermen, passed June 18, 1903.....	315 60
Regent avenue, from Harold street to River avenue, order of Board of Aldermen, passed September 17, 1903.....	78 53
Branch avenue, from Veazie street to Bridge near Vandewater street, City Council resolution No. 231, series of 1903.....	9 00
Total.....	\$301,728 72

PUBLIC WORKS, LIGHTS.

Electric lights	\$262,737 54
Lighting and care of gas lamps by Welsbach Street Lighting Company of America....	23,823 07

Salaries	\$973 31
Gas for street lights.....	257 97
Horses, wagons, harnesses, etc.....	226 79
Setting and removing gas posts.....	195 60
Office furniture and supplies.....	30
Total.....	<u>\$288,214 58</u>

PUBLIC WORKS, OFFICE.

Salary of Commissioner of Public Works....	\$4,862 10
Salary of Secretary.....	2,658 06
Salaries of clerks.....	12,487 26
Changing records and accounts to card system	2,000 00
Office supplies	596 61
Expense of surety bonds.....	60 00
Rent of telephone	10 72
Total.....	<u>\$22,674 75</u>

PUBLIC WORKS, SEWER MAINTENANCE.

Salary of Superintendent and Inspectors....	\$3,919 06
Cleaning basins and sewers.....	20,088 15
Repairing basins and sewers.....	14,095 37
Cleaning and repairing old drains.....	10,276 40
Horses, wagons, and harnesses.....	3,279 96
Tools	2,206 67
Sundries	1,866 48
Water	900 00
Carriage hire for inspector of drains.....	548 00
Removing snow from inlets.....	328 70
Office expenses	194 48
Cleaning connections	184 00
Rent of telephones	143 72
Planking at city wharf.....	91 05
Car fares	50 00
Pumping out cellars.....	25 10
Repairs on gate houses.....	13 76
Filling cisterns	10 00
Repairs on building at city yard.....	8 88

ERNEST STREET STATION.

Coal and wood	\$7,924 73
Running, care and repairs of engines.....	3,334 21
Cleaning screens	2,504 41
Firemen and care of boilers.....	1,851 17
Care and repairs of pumps.....	1,425 61
Supplies	382 79
Care of buildings and grounds.....	370 12
Lights	135 85

SEWAGE PRECIPITATION TANKS.

Chemicals	\$17,236 47
Labor on sludge disposal.....	8,804 84
Labor on precipitation	5,699 03
Miscellaneous supplies	5,058 91
Electrical power	2,199 27
Watchman	479 75
Fuel	460 32
Repairs on machinery.....	423 35
Care of and repairs on buildings.....	339 33
Lights	117 04

Total.....	\$116,976 98
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PUBLIC WORKS, SIDEWALKS AND CURBING.

Curbing	\$10,429 03
Concreting and repairing sidewalks.....	9,047 52

Total.....	\$19,476 55
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PUBLIC WORKS, WATER WORKS MAINTENANCE.

Pettaconsett pumping station:

Installation of fuel oil.....	\$16,638 36
Fuel and supplies for machinery, including lights	14,202 09
Engineers and firemen.....	4,597 44

Superintendence	\$1,421 07
Pumping machinery and buildings for same	1,096 85
Horses, wagons, harnesses, including barn expenses	561 49
Care of grounds.....	549 98
Sundries	2,844 25
Sockanosset reservoir, watchman, etc.....	1,214 44
Hope pumping station and reservoir:	
Engineers and firemen.....	2,966 28
Fuel and supplies for machinery, includ- ing light	2,293 00
Watchman	821 25
Pumping machinery and buildings for same	447 89
Care of grounds.....	151 76
Sundries	564 33
Fruit Hill reservoir:	
Watchman	838 10
Sundries	1,382 19
Cast-iron water pipe.....	19,007 94
Repairs on pipe line, etc.....	15,797 36
Water meters, etc.....	12,650 50
Laying water pipes.....	11,700 90
Salaries of clerks and inspectors.....	8,296 73
Town of Cranston, tax 1902.....	7,077 69
Laying service pipes.....	5,206 37
Setting and repairing meters.....	4,953 88
Special castings.....	4,143 15
Horses, wagons, harnesses, etc.....	3,925 56
Superintendence of pipe line and service stops	3,402 31
Fire hydrants, boxes and covers.....	2,996 19
Service pipe	2,497 06
Stop valves	1,441 20
Taps and stops.....	1,306 71
Pig lead and tin.....	762 54

Transferring water service records to card system	\$758 95
Labor on and carting pipe.....	718 66
Telephone lines.....	550 72
Tools	525 05
Sundries	486 99
Town of North Providence, tax of 1902.....	400 00
Car fares	375 00
Pipe yard office and storehouse, salaries and expenses	167 56
Inspection of water pipes with reference to electrolyses	153 60
Town of Warwick, tax of 1902.....	105 00
Public drinking fountains and troughs.....	103 35
Town of Lincoln, tax for 1902 and 1903.....	55 00
 Total.....	 \$162,156 74

RECEIVING TOMB, NORTH BURIAL GROUND.

On account	\$13,842 02
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RECORD COMMISSIONERS.

Clerical assistance, etc.....	\$340 00
Printing and binding.....	585 74
Supplies, expressage, etc.....	40 94
 Total.....	 \$966 68

RECORDER OF DEEDS.

Salary of Recorder of Deeds.....	\$1,800 00
Salaries of assistants.....	4,919 47
Stationery and supplies.....	577 44
Printing and binding.....	563 59
Rent of telephones.....	135 00
Expense of surety bond.....	4 50
 Total.....	 \$8,000 00

REFURNISHING RECORDER'S DEPARTMENT.

On account of work of refurnishing.....	\$565 02
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RELIEF FUND FOR FIREMEN AND POLICEMEN.

Dependents of:

Firemen	\$1,836 18
Policemen	260 70
Total.....	<u>\$2,096 88</u>

RHODE ISLAND HOSPITAL.

Ambulance service and use of beds.....	\$10,000 00
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SCHOOL HOUSES AND LOTS, LOAN ACCOUNT.

Expended under authority of Chapter 805
of the ordinances:

Webster avenue, City Council resolution No.
357, series of 1900:

Construction	\$261 82
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Expended under authority of Chapter 821 of
the ordinances:

Ralph street, City Council resolution No. 170,
series of 1901:

Furnishing	\$1,478 72
Construction	1,146 35—
	2,625 07

Expended under authority of City Council
resolution No. 297, series of 1901:

Chalkstone avenue, City Council resolution
No. 299, series of 1901:

Furnishing	\$1,561 44
Construction	1,095 89—
	2,657 33

Total.....	<u>\$5,544 22</u>
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SEALER OF WEIGHTS AND MEASURES.

Salary of Sealer of Weights and Measures...	\$2,000 00
Street signs	477 26

Use of horse and team.....	\$395 00
Office expenses.....	128 35
Rent of telephone.....	120 00
Numbers	70 35
Water	17 00
Advertising	12 62
Printing and binding	11 25
Gas	10 71
Expense of surety bond.....	4 50
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Total.....	\$3,247 04

SENATOR ANTHONY PRIZE FUND.

Medals and prizes awarded.....	\$110 00
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SEWER ASSESSMENTS.

Assessments refunded to:

William H. and Mader E. Boyd.....	\$32 81
William H. and Mader E. Boyd.....	22 96
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Total.....	\$55 77
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SEWER CONSTRUCTION.

Payments on contracts for sewers in the following streets:

Charles street, from 100 feet north of summit at Amboy street to Branch avenue.....	\$7,762 67
Branch avenue, from Douglas avenue to Veazie street	6,772 44
Silver Spring street and Northup avenue....	6,323 60
Douglas and Camden avenues.....	5,888 93
Branch avenue, from Langdon street to near Moshassuck river.....	2,795 14
Sears avenue, from Atwells avenue to Range- ley avenue	2,602 91
Reservoir avenue and Algonquin street.....	2,345 99
Doane and Everett avenues.....	2,336 92

President avenue, from Arlington to Wayland avenues	\$2,198 46
Phillips street, from Hope street to Morris avenue	1,871 32
Cemetery street, from North Main street to Frost street	1,871 28
Summit avenue, from Fourth street to Sev- enth street	1,655 12
Primrose, Walnut and Byron streets.....	1,506 27
Tuxedo and Regent avenues.....	1,364 58
Massachusetts avenue, from Virginia avenue to Broad street.....	1,337 82
Wayland, Cole and University avenues.....	1,091 03
Oxford street, from near Eddy street to Al- lens avenue	930 40
Oriole and Rhode Island avenues.....	809 33
Jewett street, from a point about 510 feet east of Valley street to Valley street.....	642 78
Wallace street, from Webster avenue to Pris- cilla avenue	538 12
Moses Brown street, from Angell street to South Angell street.....	336 85
Woodbine and Grandview streets.....	312 00
Weymouth street and Lloyd avenue.....	260 03
Smithfield and Branch avenues.....	177 00
Barnes street, from low point west of Thayer street to Thayer street.....	170 44
Atwells avenue, Pine and Broad streets.....	129 84
Tenth street, from North Main street to High- land avenue	105 00
Hamlin street, from Elmwood avenue to Roger Williams Park	59 00
Laurel Hill avenue, from Pocasset avenue to Plainfield street	57 50
Bellevue avenue, from Elmwood avenue to Bucklin street	48 00

Merino avenue, from Manton avenue to near Merino bridge	\$42 00
North Main street, from Stenton avenue to Third street	35 00
Suffolk street, from Salina street to Admiral street	20 25
Reservations on sewers in the following streets:	
North Main street, from City line to Frost street	815 00
Seventh street, from Summit street to North Main street	251 00
Unit street, from Maynard street to Manton avenue	118 00
Calais, Edith and Leland streets.....	99 00
Calais and West Park streets.....	44 00
Sewer pipe	16,078 25
Brick	6,490 30
Manhole and catch-basin covers, traps, etc..	3,383 53
Additional catch basins.....	1,725 20
Sundries	964 72
Flagstone	684 00
Catch-basin stone	454 80
Cement testing.....	350 23
Tools	13 63

IMPROVED SEWERAGE ACCOUNT.

For construction	179,902 85
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LAND FOR IMPROVED SEWERAGE.

Butler Hospital for the Insane.....	1,000 00
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Total.....	\$266,781 53
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SINKING FUNDS.

Sinking Fund, Davis Estate Loan, due July 1, 1909	\$3,000 00
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Sinking Fund, Fire and Police Loan, due November 1, 1932.....	\$5,160 00
Sinking Fund, Highway Loan, due January 1, 1912	13,000 00
Sinking Fund, Highway Loan, due May 1, 1924	25,000 00
Sinking Fund, Highway Loan, due April 1, 1927	10,000 00
Sinking Fund, Highway Loan, due May 1, 1930	6,000 00
Sinking Funds, Johnston Bonds.....	7,300 00
Sinking Fund, Johnston Annexation Loan, due September 1, 1939.....	2,200 00
Sinking Fund, Park Loan, due March 1, 1922	10,000 00
Sinking Fund, Park Loan, due May 1, 1947..	5,750 00
Sinking Fund, Public Improvement Loan, due May 1, 1929.....	1,700 00
Sinking Fund, Public Improvement Loan, due May 1, 1937.....	8,200 00
Sinking Fund, School Loan, due July 1, 1911	13,300 00
Sinking Fund, School Loan, due May 1, 1925	5,000 00
Sinking Fund, School Loan, due April 1, 1927	10,000 00
Sinking Fund, School Loan, due May 1, 1929	7,000 00
Sinking Fund, Sewer Loan, due July 1, 1921	25,000 00
Sinking Fund, Sewer Loan, due March 1, 1922	10,000 00
Sinking Fund, Sewer Loan, due April 1, 1923	10,000 00
Sinking Fund, Sewer Loan, due May 1, 1925	15,000 00
Sinking Fund, Sewer Loan, due June 1, 1926	10,000 00
Sinking Fund, Sewer Loan, due April 1, 1927	6,000 00
Sinking Fund, Sewer Loan, due April 1, 1928	4,000 00
Sinking Fund, Sewer Loan, due May 1, 1929	5,000 00
Sinking Fund, Sewer Loan, due May 1, 1930	6,000 00
Sinking Fund, Sewer Loan, due May 1, 1931	6,000 00
Sinking Fund, Weybosset Bridge Loan, due May 1, 1929.....	5,500 00
Total.....	\$235,110 00

SINKING FUND, WATER LOAN, DUE JULY 1, 1906.

Excess of receipts from water rents over and above the expense of managing the water works for the financial year ending September 30, 1903.....	\$260,507 58
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STATE OF RHODE ISLAND.

The proportion of receipts from licenses paid to the State, viz.:

City licenses	\$6,700 50
Liquor licenses.....	59,126 00
Total.....	\$65,826 50

STATE TAX.

State of Rhode Island, one-half of tax due December 15, 1902.....	\$155,720 83
One-half due June 15, 1903.....	155,720 83
Total.....	\$311,441 66

SUPPORT OF THE POOR.

Salary of Overseer of the Poor.....	\$2,000 00
Charity building and wood yard.....	21,824 59
Allowance and relief.....	6,349 38
Coal	1,561 50
Burial expenses.....	991 00
Shoes	636 10
Medical attendance	600 00
Rhode Island Hospital.....	343 71
Transportation	311 31
Total.....	\$34,617 59

TAX DEPARTMENT.

Salaries of Assessors of Taxes.....	\$8,550 00
Salaries of assistants.....	5,894 23
Poll tax expenses.....	3,069 64

Additional assistance to Assessors of Taxes..	\$823 00
Lithograph copies of plats.....	455 00
Printing and binding.....	353 04
Carriage hire	242 38
Stationery and supplies.....	198 57
Lunches	121 50
Rent of telephone.....	120 00
Advertising	56 95
Car fares	30 00
Posting notices of City Tax of 1903.....	2 00
Total.....	\$19,916 31

TREASURY DEPARTMENT.

Salary of City Treasurer.....	\$4,000 00
Salary of Deputy City Treasurer.....	2,500 00
Salaries of assistants.....	\$10,703 26
Temporary assistants.....	1,113 38— 11,816 64
Poll tax expenses.....	3,130 10
Examining titles, etc.....	1,900 00
Stationery and supplies.....	1,728 57
Serving notices for unpaid taxes of 1902.....	1,187 34
Advertising	867 34
Paymaster's horse and carriage expenses....	856 79
Printing and binding.....	583 83
Auctioneer's expenses for sale of real estate for unpaid taxes and sewer assessments	383 60
Printing bonds	220 00
Expense of surety bonds.....	191 50
Rent of telephone.....	120 00
Lunches	118 80
Carriage hire	83 51
Serving notices, unpaid sewer assessments..	56 35
Traveling expenses	12 14
Post office box rent.....	12 00
Express, telegrams, etc.....	10 05
Total.....	\$29,778 56

WATER WORKS CONSTRUCTION.

Sand filtration plant at Pettaconset.....	\$57,352 58
Salaries of assistant engineers.....	2,271 68
Total.....	<hr/> \$59,624 26

WATER WORKS LOAN, DUE JULY 1, 1900.

Paid bonds due July 1, 1900.....	\$3,000 00
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WEYBOSSET BRIDGE AND RIVER WALLS.

On account of abutment walls and piers in Providence river between Burnside and Exchange bridges, City Council resolution No. 411, series of 1902.....	<hr/> \$5,488 14
Total.....	\$5,717,447 84
Balance in the City Treasury, September 30, 1903	307,533 68
	<hr/> \$6,024,981 52

LOAN ACCOUNT.

Dr.

NUMBER.	RATE.	PAID.	AMOUNT.
City Note No. 2028.....	4 per cent.	Jan. 14, 1903.....	\$9,000 00
2115.....	4 "	Nov. 1, 1902.....	1,500 00
2124.....	4 "	Nov. 1, 1902.....	15,000 00
2126.....	4 "	Nov. 1, 1902.....	10,000 00
2127.....	4 "	Nov. 1, 1902.....	25,000 00
2135.....	4 "	Nov. 1, 1902.....	15,000 00
2136.....	4 "	Nov. 1, 1902.....	50,000 00
2144.....	4 "	Nov. 1, 1902.....	50,000 00
2146.....	4 "	Jan. 14, 1903.....	1,803 08
2147.....	3 1/2 "	Nov. 1, 1902.....	10,000 00
2148.....	3 1/2 "	Nov. 1, 1902.....	20,000 00
2149.....	3 1/2 "	Nov. 1, 1902.....	20,000 00
2151.....	4 "	Nov. 1, 1902.....	3,000 00
2152.....	4 "	Nov. 1, 1902.....	9,000 00
2153.....	4 "	Nov. 1, 1902.....	3,000 00
2154.....	4 "	Nov. 1, 1902.....	2,000 00
2155.....	4 "	Nov. 1, 1902.....	2,000 00
2156.....	4 "	Nov. 1, 1902.....	11,000 00
2161.....	4 "	Oct. 14, 1902.....	20,000 00
2162.....	4 "	Oct. 14, 1902.....	135,720 83
2163.....	4 "	Oct. 14, 1902.....	25,000 00
2164.....	4 "	Oct. 14, 1902.....	25,000 00
2165.....	4 "	Nov. 1, 1902.....	3,500 00
2166.....	4 "	Nov. 1, 1902.....	2,500 00
2167.....	4 "	Nov. 1, 1902.....	3,500 00
2168.....	4 "	Nov. 1, 1902.....	3,000 00
2169.....	4 "	Nov. 1, 1902.....	2,500 00
2170.....	3 1/2 "	Nov. 1, 1902.....	75,000 00
2175.....	4 "	Nov. 1, 1902.....	1,200 00
Balance unpaid September 30, 1903.....			1,108,420 06

Amount carried forward..... \$1,662,643 97

LOAN ACCOUNT.

CR.

NUMBER.	RATE.	DUE.	AMOUNT.
Balance unpaid September 30, 1902.....			\$865,723 91
City Note No. 2176.....	4 per cent.	On demand.....	17,000 00
2177.....	4 "	"	25,000 00
2178.....	4 "	"	25,000 00
2179.....	4 "	"	25,000 00
2180.....	4 "	"	100,000 00
2181.....	4 "	"	25,000 00
2182.....	4 "	"	50,000 00
2183.....	4 "	"	10,000 00
2184.....	4 "	"	25,000 00
2185.....	4 "	"	9,199 23
2186.....	4 "	"	16,000 00
2187.....	4 "	"	5,000 00
2188.....	4 "	"	4,000 00
2189.....	4 "	"	9,000 00
2190.....	4 "	"	5,000 00
2191.....	4 "	"	2,500 00
2192.....	4 "	"	8,500 00
2193.....	4 "	"	6,000 00
2194.....	4 "	"	5,000 00
2195.....	4 "	"	8,000 00
2196.....	4 "	"	4,000 00
2197.....	4 "	"	4,000 00
2198.....	4 "	"	8,000 00
2199.....	4 "	"	5,000 00
2200.....	4 "	"	3,500 00
2201.....	4 "	June 15, 1904.....	5,500 00
2202.....	4 "	On demand.....	3,000 00
2203.....	4 "	"	2,500 00
2204.....	4 "	"	2,500 00
2205.....	4 "	"	3,900 00
2206.....	4 "	"	4,400 00
2207.....	4 "	"	4,000 00
2208.....	4 "	"	3,600 00
2209.....	4 "	"	3,000 00
2210.....	4 "	"	1,100 00
2211.....	4 "	"	1,000 00
2212.....	4 "	June 15, 1904.....	50,000 00
Amount carried forward.....			\$1,354,923 14

NUMBER.	RATE.	DUE.	AMOUNT.
Amount brought forward.....			\$1 662,643 97

\$1,662,643 97

NUMBER.	RATE.	DUE.	AMOUNT.
Amount brought forward.....			\$1,354,923 14
City Note No. 2213.....	4 per cent.	June 15, 1904.....	5,000 00
2214.....	4 "	" 15, 1904.....	25,000 00
2215.....	4 "	" 15, 1904.....	20,000 00
2216.....	4½ "	Oct. 13, 1903.....	155,720 83
2217.....	3½ "	On demand.....	1,000 00
2218.....	3½ "	"	1,000 00
2219.....	3½ "	"	1,000 00
2220.....	3½ "	"	1,000 00
2221.....	3½ "	"	1,000 00
2222.....	3½ "	"	1,000 00
2223.....	3½ "	"	1,000 00
2224.....	3½ "	"	1,000 00
2225.....	3½ "	"	1,000 00
2226.....	3½ "	"	1,000 00
2227.....	4 "	"	17,600 00
2228.....	4 "	June 15, 1904.....	32,400 00
2229.....	4 "	On demand.....	1,000 00
2230.....	4 "	"	5,000 00
2231.....	4 "	"	2,000 00
2232.....	3½ "	"	1,000 00
2233.....	3½ "	"	1,000 00
2234.....	3½ "	"	1,000 00
2235.....	3½ "	"	1,000 00
2236.....	4 "	"	2,500 00
2237.....	4 "	"	2,500 00
2238.....	4 "	"	4,600 00
2239.....	4 "	"	4,800 00
2240.....	4 "	"	4,300 00
2241.....	4 "	"	3,900 00
2242.....	4 "	"	3,600 00
2243.....	4 "	"	3,800 00
			\$1,662,643 97

FUNDED DEBT.

The funded debt of the City of Providence, on September 30, 1903, comprised bonds and certificates of the following denomination, viz.:

[Furnished by the City Treasurer.]

PUBLIC IMPROVEMENT LOANS.

DUE MAY 1, 1929, INTEREST AT 3 PER CENT.

84 Coupon bonds, \$1,000 each.....	\$84,000 00
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DUE MAY 1, 1937, INTEREST AT 3½ PER CENT.

32 Registered bonds, \$20,000 each.....	640,000 00
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WATER LOANS.

DUE JULY 1, 1906, INTEREST AT 5 PER CENT.

293 Coupon bonds, \$1,000 each.....	\$293,000 00	
192 Registered bonds, \$1,000 each....	192,000 00	
45 Registered bonds, \$5,000 each....	225,000 00	
23 Registered bonds, \$10,000 each...	230,000 00	
28 Registered bonds, \$20,000 each...	560,000 00—	\$1,500,000 00

DUE JULY 1, 1906, INTEREST AT 3 PER CENT.

10 Registered bonds, \$1,000 each....	\$10,000 00	
16 Registered bonds, \$5,000 each....	80,000 00—	90,000 00

DUE SEPTEMBER 1, 1916, INTEREST AT 3½ PER CENT.

49 Coupon bonds, \$1,000 each.....	\$49,000 00	
24 Registered bonds, \$1,000 each....	24,000 00	
82 Registered bonds, \$5,000 each....	410,000 00—	483,000 00

DUE APRIL 1, 1923, INTEREST AT 4 PER CENT.

241 Coupon bonds, \$1,000 each.....	\$241,000 00	
11 Registered bonds, \$1,000 each....	11,000 00	
9 Registered bonds, \$5,000 each....	45,000 00	
18 Registered bonds, \$10,000 each...	180,000 00	
17 Registered bonds, \$20,000 each...	340,000 00—	\$17,000 00

DUE JUNE 1, 1926, INTEREST AT 4 PER CENT.

10 Registered bonds, \$20,000 each.....	\$200,000 00
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DUE APRIL 1, 1927, INTEREST AT 4 PER CENT.

15 Registered bonds, \$1,000 each....	\$15,000 00	
5 Registered bonds, \$5,000 each....	25,000 00	
11 Registered bonds, \$10,000 each...	110,000 00	
5 Registered bonds, \$20,000 each...	100,000 00—	250,000 00

WATER REFUNDING LOAN.

DUE MAY 1, 1930, INTEREST AT 3 PER CENT.

232 Coupon bonds, \$1,000 each.....	\$1,232,000 00	
84 Registered bonds, \$1,000 each...	84,000 00	
46 Registered bonds, \$5,000 each...	230,000 00	
66 Registered bonds, \$10,000 each..	660,000 00	
23 Registered bonds, \$20,000 each..	460,000 00—	\$2,666,000 00

DAVIS ESTATE LOAN.

DUE JULY 1, 1909, INTEREST AT 4 PER CENT.

46 Coupon bonds, \$1,000 each.....	\$46,000 00	
19 Registered bonds, \$1,000 each....	19,000 00	
2 Registered bonds, \$5,000 each....	10,000 00—	\$75,000 00

FIRE AND POLICE LOAN.

DUE NOVEMBER 1, 1932, INTEREST AT 3¼ PER CENT.

3 Registered bonds, \$1,000 each....	\$3,000 00	
15 Registered bonds, \$5,000 each....	75,000 00	
10 Registered bonds, \$10,000 each...	100,000 00	
4 Registered bonds, \$20,000 each...	80,000 00—	\$258,000 00

HIGHWAY LOANS.

DUE JANUARY 1, 1912, INTEREST AT 3 PER CENT.

50 Registered bonds, \$1,000 each....	\$50,000 00	
8 Registered bonds, \$5,000 each....	40,000 00	
3 Registered bonds, \$20,000 each...	60,000 00—	\$150,000 00

DUE MAY 1, 1924, INTEREST AT 4 PER CENT.

10 Registered bonds, \$1,000 each....	\$10,000 00	
2 Registered bonds, \$5,000 each....	10,000 00	
4 Registered bonds, \$10,000 each...	40,000 00	
57 Registered bonds, \$20,000 each...	1,140,000 00—	1,200,000 00

DUE APRIL 1, 1927, INTEREST AT 4 PER CENT.

45 Registered bonds, \$1,000 each....	\$45,000 00	
11 Registered bonds, \$5,000 each....	55,000 00	
8 Registered bonds, \$10,000 each...	80,000 00	
16 Registered bonds, \$20,000 each...	320,000 00—	\$500,000 00

DUE MAY 1, 1930, INTEREST AT 3 PER CENT.

189 Coupon bonds, \$1,000 each.....	\$189,000 00	
21 Registered bonds, \$1,000 each....	21,000 00	
4 Registered bonds, \$5,000 each....	20,000 00	
3 Registered bonds, \$10,000 each...	30,000 00	
2 Registered bonds, \$20,000 each...	40,000 00—	300,000 00

SCHOOL LOANS.

DUE JULY 1, 1911, INTEREST AT 4 PER CENT.

118 Coupon bonds, \$1,000 each.....	\$118,000 00	
47 Registered bonds, \$1,000 each....	47,000 00	
7 Registered bonds, \$5,000 each....	35,000 00	
10 Registered bonds, \$10,000 each...	100,000 00—	\$300,000 00

DUE MAY 1, 1925, INTEREST AT 4 PER CENT.

15 Registered bonds, \$20,000 each.....	300,000 00	
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DUE APRIL 1, 1927, INTEREST AT 4 PER CENT.

57 Coupon bonds, \$1,000 each.....	\$57,000 00	
13 Registered bonds, \$1,000 each....	13,000 00	
2 Registered bonds, \$5,000 each....	10,000 00	
28 Registered bonds, \$10,000 each...	280,000 00	
7 Registered bonds, \$20,000 each...	140,000 00—	500,000 00

DUE MAY 1, 1929, INTEREST AT 3½ PER CENT.

1 Registered bond.....	\$10,000 00	
17 Registered bonds, \$20,000 each...	340,000 00—	350,000 00

SEWER LOANS.

DUE JULY 1, 1921, INTEREST AT 4 PER CENT.

586 Coupon bonds, \$1,000 each.....	\$586,000 00	
79 Registered bonds, \$1,000 each....	79,000 00	
10 Registered bonds, \$5,000 each....	50,000 00	
21 Registered bonds, \$10,000 each...	210,000 00	
10 Registered bonds, \$20,000 each...	200,000 00—	\$1,125,000 00

DUE MARCH 1, 1922, INTEREST AT 4 PER CENT.

72 Coupon bonds, \$1,000 each.....	\$72,000 00	
28 Registered bonds, \$1,000 each....	28,000 00	
6 Registered bonds, \$5,000 each....	30,000 00	
9 Registered bonds, \$10,000 each....	90,000 00	
14 Registered bonds, \$20,000 each....	280,000 00—	\$500,000 00

DUE APRIL 1, 1923, INTEREST AT 4 PER CENT.

145 Coupon bonds, \$1,000 each.....	\$145,000 00	
20 Registered bonds, \$1,000 each....	20,000 00	
13 Registered bonds, \$5,000 each....	65,000 00	
21 Registered bonds, \$10,000 each....	210,000 00	
3 Registered bonds, \$20,000 each....	60,000 00—	500,000 00

DUE MAY 1, 1925, INTEREST AT 4 PER CENT.

337 Coupon bonds, \$1,000 each.....	\$337,000 00	
18 Registered bonds, \$1,000 each....	18,000 00	
7 Registered bonds, \$5,000 each....	35,000 00	
11 Registered bonds, \$10,000 each....	110,000 00	
15 Registered bonds, \$20,000 each....	300,000 00—	800,000 00

DUE JUNE 1, 1926, INTEREST AT 4 PER CENT.

242 Coupon bonds, \$1,000 each.....	\$242,000 00	
8 Registered bonds, \$1,000 each....	8,000 00	
4 Registered bonds, \$5,000 each....	20,000 00	
21 Registered bonds, \$10,000 each....	210,000 00	
1 Registered bond.....	20,000 00—	500,000 00

DUE APRIL 1, 1927, INTEREST AT 4 PER CENT.

20 Coupon bonds, \$1,000 each.....	\$20,000 00	
4 Registered bonds, \$10,000 each....	40,000 00	
12 Registered bonds, \$20,000 each....	240,000 00—	300,000 00

DUE APRIL 1, 1928, INTEREST AT 3½ PER CENT.

100 Coupon bonds, \$1,000 each.....	\$100,000 00	
2 Registered bonds, \$5,000 each....	10,000 00	
9 Registered bonds, \$10,000 each....	90,000 00—	200,000 00

DUE MAY 1, 1929, INTEREST AT 3 PER CENT.

161 Coupon bonds, \$1,000 each.....	\$161,000 00	
14 Registered bonds, \$1,000 each....	14,000 00	
5 Registered bonds, \$5,000 each....	25,000 00	
3 Registered bonds, \$10,000 each....	30,000 00	
1 Registered bond.....	20,000 00—	250,000 00

DUE MAY 1, 1930, INTEREST AT 3 PER CENT.

129 Coupon bonds, \$1,000 each.....	\$129,000 00	
1 Registered bond.....	1,000 00	
14 Registered bonds, \$5,000 each....	70,000 00	
5 Registered bonds, \$20,000 each...	100,000 00—	\$300,000 00

DUE MAY 1, 1931, INTEREST AT 3 PER CENT.

25 Registered bonds, \$1,000 each....	\$25,000 00	
13 Registered bonds, \$5,000 each....	65,000 00	
5 Registered bonds, \$10,000 each...	50,000 00	
8 Registered bonds, \$20,000 each...	160,000 00—	300,000 00

PARK LOANS.

DUE MARCH 1, 1922, INTEREST AT 4 PER CENT.

80 Coupon bonds, \$1,000 each.....	\$80,000 00	
15 Registered bonds, \$1,000 each....	15,000 00	
9 Registered bonds, \$5,000 each....	45,000 00	
6 Registered bonds, \$10,000 each...	60,000 00	
15 Registered bonds, \$20,000 each...	300,000 00—	\$500,000 00

DUE MAY 1, 1947, INTEREST AT 3½ PER CENT.

9 Registered bonds, \$1,000 each....	\$9,000 00	
3 Registered bonds, \$5,000 each....	15,000 00	
1 Registered bond.....	10,000 00	
32 Registered bonds, \$20,000 each...	640,000 00—	674,000 00

WEYBOSSET BRIDGE LOAN.

DUE MAY 1, 1929, INTEREST AT 3½ PER CENT.

12 Coupon bonds, \$1,000 each.....	\$12,000 00	
8 Registered bonds, \$1,000 each....	8,000 00	
8 Registered bonds, \$5,000 each....	40,000 00	
1 Registered bond.....	10,000 00	
10 Registered bonds, \$20,000 each...	200,000 00—	\$270,000 00

JOHNSTON ANNEXATION LOAN.

DUE SEPTEMBER 1, 1939, INTEREST AT 3 PER CENT.

11 Registered bonds, \$1,000 each....	\$11,000 00	
3 Registered bonds, \$5,000 each....	15,000 00	
6 Registered bonds, \$10,000 each...	60,000 00	
4 Registered bonds, \$20,000 each...	80,000 00—	\$166,000 00

ISSUED BY TOWN OF JOHNSTON.

SCHOOL DISTRICT NO. 1, DUE NOV. 1, 1927, INTEREST AT 4 PER CENT.

17 Coupon bonds, \$1,000 each..... \$17,000 00

SCHOOL DISTRICT NO. 15, DUE OCT. 1, 1909, INTEREST AT 4 PER CENT.

25 Coupon bonds, \$1,000 each..... \$25,000 00

SCHOOL DISTRICT NO. 15, DUE OCT. 1, 1924, INTEREST AT 4 PER CENT.

30 Coupon bonds, \$1,000 each..... \$30,000 00

TOWN, DUE FEB. 1, 1912, INTEREST AT 4 PER CENT.

50 Coupon bonds, \$1,000 each..... \$50,000 00

TOWN, DUE FEB. 1, 1917, INTEREST AT 4 PER CENT.

57 Coupon bonds, \$1,000 each..... \$57,000 00

2 Registered bonds, \$1,000 each.... 2,000 00— \$59,000 00

Total \$17,220,000 00

THE SINKING FUNDS.

FOR THE REDEMPTION OF THE CITY DEBT.

CHAPTER 51.

(Revised Ordinances of 1899.)

SECTION 1. The board of commissioners of sinking funds shall consist of the mayor, the city treasurer, the city auditor, the chairman of the committee on finance, and three persons to be elected by the city council by concurrent vote of the two branches thereof; and all the members shall hold their respective offices until their successors are elected and qualified to act. One of the three elective members of said board shall be elected annually, on the first Monday in January, for the term of three years. In case of a vacancy in said board, by death, resignation, or otherwise, of either of the persons elected thereto, such vacancy shall be filled by the city council, by concurrent vote of the two branches, and the person so elected shall hold his office for the remainder of the unexpired term. A majority of all the members of said board shall be necessary to constitute a quorum thereof.

SEC. 2. The mayor shall be chairman, the city auditor shall be secretary and shall keep a full record of the meetings, and the city treasurer shall be treasurer and shall keep the accounts of said board.

SEC. 3. Said board shall keep a full record of all its meetings and proceedings, and shall make a report in print to the city council in the months of January, April, July, and October in each year, showing the changes, if any, in the several sinking-funds, and shall also, in the month of January in each year, make a detailed report in print of the condition and manner of the investment thereof. Said record shall be kept in the vault in the office of the city auditor.

SEC. 4. The treasurer of said board shall have the custody of all the securities of said board and shall keep said securities in one or more of the compartments of the safe in the vault in the office of the city treasurer, and all the books of account of the board shall be deposited in said vault.

SEC. 5. The records and books of account of said board shall be open to the inspection of any member of the city council.

SEC. 6. Said board shall have the control and management of all sinking-funds established for the redemption of any bonds or notes heretofore issued by the city, or which may hereafter be issued by the city, or for the redemption of any bonds now held or which may hereafter be held by the city, and shall promptly invest all moneys received by them

from any source in bonds or notes of the city; in bonds of the state of Rhode Island, or of the United States; in bonds of any of the New England states; in bonds or notes of any city in the state of Rhode Island; and in the bonds of the following cities: Boston, Worcester, Cambridge, Springfield, and Fall River, in the state of Massachusetts; New York, Albany, Rochester, and Buffalo, in the state of New York; New Haven and Hartford, in the state of Connecticut; Chicago, in the state of Illinois; Detroit, in the state of Michigan; Minneapolis and Saint Paul, in the state of Minnesota; and Baltimore, in the state of Maryland. Said board shall give preference to the bonds and notes of the city of Providence, and shall, immediately upon the purchase thereof, cancel all such bonds so purchased by them, together with the coupons attached thereto, provided the same may be lawfully cancelled, in such manner as to effectually prevent their re-issue or negotiation: and all notes and other bonds which shall be purchased by said board shall be indorsed or made payable to said board in such manner as to prevent the sale, negotiation or payment thereof, except by order of said board. If at any time the indebtedness of any of said cities, except the city of Providence, less its water-debt and sinking-fund, shall exceed seven per centum of its valuation for purposes of taxation, said board shall forthwith sell the bonds and notes of said cities, and, until such indebtedness shall be reduced to seven per centum of the valuation for purposes of taxation, shall cease to invest its moneys in said bonds or notes.

SEC. 7. No investment or change of investment or securities shall be made, except by vote of a majority of the board, and the members of the board shall, by their signatures upon the record, express their approval or disapproval of such vote.

SEC. 8. All sums of money remaining in the hands of said board, shall after applying said sinking-fund as by law required, and all excess of receipts from water-rents over and above the necessary expenses of managing the water-works, including interest on loans and bonds issued on account of the water-works, shall be applied to a sinking-fund for the redemption of water bonds as they become due.

SEC. 9. Said board is authorized to hold in trust for the Commissioners of the North Burial Ground the perpetual care funds of the North Burial Ground, and any additions thereto, according to the terms and provisions of chapter 781 of the public laws passed by the general assembly at the January session, A. D. 1889.

CHAPTER 112, APPROVED SEPT. 11, 1901.

SEC. 10. Said Board shall receive such sums of money as shall accrue under the provisions of Section 55 of Chapter 12 of the Revised Ordinances of 1899, as amended by Section 2 of this Chapter, and shall in their discretion add the same to a sinking fund under their control and management, or hold the same as a separate fund to be appropriated by them to the payment of any note or notes of the City of Providence.

SINKING FUNDS.

The following is an exhibit of the condition of the several sinking funds held by the Commissioners on the thirtieth day of September, 1903, for the redemption of the bonds of the City of Providence. Except as otherwise stated, investments are City of Providence bonds and notes, viz.:

[Furnished by the Treasurer.]

SINKING FUND OF 1929.

Public Improvement Loan.

Two 4 per cent. notes, payable on demand.....	\$4,500 00
Three 3 per cent. registered bonds, due Jan. 1, 1912, (Highways)	3,000 00
Cash	262 66
	\$7,762 66

SINKING FUND OF 1937.

Public Improvement Loan.

Two 3 per cent. registered bonds, due Sept. 1, 1939, (Johnston Annexation)	\$15,000 00
One 3 per cent. registered bond, due May 1, 1930, (Water)	10,000 00
Three 3 per cent. registered bonds, due May 1, 1931, (Sewer)	7,000 00
One 3¼ per cent. registered bond, due Nov. 1, 1932, (Fire and Police).....	5,000 00
Four 4 per cent. notes, payable on demand.....	16,498 23
Cash	1,102 16
	\$54,601 39

SINKING FUND OF 1906.

Water Loan.

Thirty-three 5 per cent. registered bonds, due July 1, 1906	\$228,000 00
Three 4 per cent. registered bonds, due April 1, 1927, (Highways)	60,000 00
Five 3 per cent. registered bonds, due Jan. 1, 1912, (Highways)	43,000 00
Eight 3½ per cent. registered bonds, due May 1, 1947, (Parks)	160,000 00
Thirteen 4 per cent. notes, payable on demand.....	325,400 00

Five 3½ per cent. registered bonds, due July 1, 1909, (City of Worcester, Mass.)	\$50,000 00
Four 3½ per cent. registered bonds, due August 1, 1939, (City of Cambridge, Mass.)	40,000 00
Three 3 per cent. registered bonds, due July 1, 1906, (Water)	7,000 00
One 3 per cent. registered bond, due May 1, 1930, (Water)	10,000 00
Ten 3 per cent. registered bonds, due May 1, 1931, (Sewer)	109,000 00
Cash	*263,855 92
	<hr/> \$1,296,255 92

SINKING FUND OF 1916.

Water Loan.

Three 3½ per cent. registered bonds, due Sept. 1, 1916, (Water)	\$15,000 00
Four 3½ per cent. registered bonds, due May 1, 1937, (Public Improvement)	80,000 00
Five 4 per cent. registered bonds, due April 1, 1927, (Highways)	9,000 00
Two 3 per cent. registered bonds, due Jan. 1, 1912, (Highways)	2,000 00
Four 3 per cent. registered bonds, due July 1, 1906, (Water)	4,000 00
Two 4 per cent. notes, payable on demand.....	8,600 00
Cash	31 17
	<hr/> \$118,631 17

SINKING FUND OF 1923.

Water Loan.

Three 4 per cent. registered bonds, due July 1, 1911, (School)	\$3,000 00
Three 4 per cent. registered bonds, due July 1, 1921, (Sewer)	7,000 00
Three 4 per cent. registered bonds, due April 1, 1923, (Water)	3,000 00
Five 5 per cent. registered bonds, due July 1, 1906, (Water)	27,000 00
Six 3 per cent. registered bonds, due Sept. 1, 1939, (Johnston Annexation)	19,000 00
Three 3 per cent. registered bonds, due Jan. 1, 1912, (Highways)	3,000 00
Two 4 per cent notes, payable on demand.....	4,900 00
Cash	295 29
	<hr/> \$67,195 29

* Includes \$260,507.58 excess of water rents for year ending September 30, 1903.

SINKING FUND OF 1926.

Water Loan.

Five 4 per cent. registered bonds, due April 1, 1927, (Highways)	\$28,000 00
Two 3 per cent. registered bonds, due Jan. 1, 1912. (Highways)	2,000 00
One 4 per cent. note, payable on demand.....	2,500 00
Cash	82 16
	<hr/>
	\$32,582 16

SINKING FUND OF 1927.

Water Loan.

Six 4 per cent. registered bonds, due April 1, 1927, (Highways)	\$34,000 00
Two 3 per cent. registered bonds, due Jan. 1, 1912. (Highways)	2,000 00
One 4 per cent. note, payable on demand.....	2,500 00
Cash	51 67
	<hr/>
	\$38,551 67

SINKING FUND OF 1930.

Water Refunding Loan.

Three 4 per cent. registered bonds, due April 1, 1927, (Highways)	\$3,000 00
Cash	383 07
	<hr/>
	\$3,383 07

SINKING FUND OF 1909.

Davis Estate Loan.

Five 3 per cent. registered bonds, due Sept. 1, 1939, (Johnston Annexation)	\$33,000 00
One 3 per cent. registered bond, due May 1, 1930. (Water)	5,000 00
Two 3 per cent. registered bonds, due Jan. 1, 1912. (Highways)	2,000 00
One 4 per cent. note, payable on demand.....	5,000 00
Cash	1,230 78
	<hr/>
	\$46,230 78

SINKING FUND OF 1911.

School Loan.

Two 4 per cent. registered bonds, due July 1, 1911, (School)	\$20,000 00
One 3 per cent. registered bond, due Jan. 1, 1912, (Highways)	5,000 00

Three 4 per cent. registered bonds, due April 1, 1927, (Highways)	\$35,000 00
Four 3½ per cent. registered bonds, due May 1, 1937, (Public Improvement)	80,000 00
Three 3¼ per cent. registered bonds, due Nov. 1, 1932, (Fire and Police)	35,000 00
Three 3 per cent. registered bonds, due May 1, 1931, (Sewer)	7,000 00
Two 3 per cent. registered bonds, due July 1, 1906, (Water)	10,000 00
Three 4 per cent. notes, payable on demand.....	8,300 00
Cash	42 08
	<hr/>
	\$200,342 03

SINKING FUND OF 1925.

School Loan.

Eight 3½ per cent. registered bonds, due May 1, 1947, (Park)	\$78,000 00
Three 3 per cent. registered bonds, due May 1, 1931, (Sewer)	7,000 00
One 3 per cent. registered bond, due May 1, 1930, (Sewer)	5,000 00
Two 3 per cent. registered bonds, due Jan. 1, 1912, (Highways)	2,000 00
One 4 per cent. note, payable on demand.....	8,500 00
Cash	1,938 92
	<hr/>
	\$102,438 92

SINKING FUND OF 1927.

School Loan.

Three 4 per cent. registered bonds, due April 1, 1927, (Highways)	\$3,000 00
Three 3 per cent. registered bonds, due Jan. 1, 1912, (Highways)	3,000 00
Three 3½ per cent. registered bonds, due May 1, 1937, (Public Improvement)	60,000 00
Five 3 per cent. registered bonds, due May 1, 1931, (Sewer)	18,000 00
One 3 per cent. registered bond, due May 1, 1930, (Water)	10,000 00
One 3¼ per cent. registered bond, due Nov. 1, 1932, (Fire and Police)	20,000 00
Four 4 per cent. notes, payable on demand.....	35,500 00
Cash	3,103 86
	<hr/>
	\$152,603 86

SINKING FUND OF 1929.

School Loan.

Three 4 per cent. registered bonds, due April 1, 1927, (Highways)	\$7,000 00
Three 3 per cent. registered bonds, due Jan. 1, 1912, (Highways)	3,000 00
Three 3½ per cent. registered bonds, due August 1, 1939, (City of Cambridge, Mass.)	30,000 00
Four 3 per cent. registered bonds, due May 1, 1931, (Sewer)	8,000 00
One 3 per cent. registered bond, due May 1, 1930, (Sewer)	5,000 00
One 4 per cent. note, payable on demand	9,000 00
Cash	1,780 37
	<hr/>
	\$83,780 37

SINKING FUND OF 1921.

Sewer Loan.

One 4 per cent. registered bond, due July 1, 1921, (Sewer)	\$1,000 00
Six 4 per cent. registered bonds, due April 1, 1927, (Sewer)	120,000 00
Eight 3½ per cent. registered bonds, due May 1, 1947, (Park)	145,000 00
Six 3 per cent. registered bonds, due Jan. 1, 1912, (Highways)	20,000 00
One 3 per cent. registered bond, due May 1, 1931, (Sewer)	10,000 00
Two 3 per cent. registered bonds, due July 1, 1906, (Water)	10,000 00
Three 3 per cent. registered bonds, due May 1, 1930, (Water)	25,000 00
Two 3¼ per cent. registered bonds, due Nov. 1, 1932, (Fire and Police)	30,000 00
Three 4 per cent. notes, payable on demand	15,200 00
Cash	64 91
	<hr/>
	\$385,264 91

SINKING FUND OF 1922.

Sewer Loan.

Five 4 per cent. registered bonds, due March 1, 1922, (Sewer)	\$5,000 00
Five 3½ per cent. registered bonds, due May 1, 1937, (Public Improvement)	100,000 00
Three 3 per cent. registered bonds, due September 1, 1939, (Johnston Annexation)	45,000 00
One 4 per cent. registered bond, due April 1, 1927, (Highways)	10,000 00

Two 3 per cent. registered bonds, due Jan. 1, 1912, (Highways)	\$6,000 00
One 3 per cent. registered bond, due May 1, 1930, (Water)	10,000 00
Three 3¼ per cent. registered bonds, due Nov. 1, 1932, (Fire and Police)	16,000 00
One 4 per cent. note, payable on demand.....	4,800 00
Cash	17 01
	<hr/>
	\$196,817 01

SINKING FUND OF 1923.**Sewer Loan.**

One 4 per cent. registered bond, due April 1, 1923, (Sewer)	\$10,000 00
Three 3½ per cent. registered bonds, due May 1, 1937, (Public Improvement)	60,000 00
Seven 3 per cent. registered bonds, due September 1, 1939. (Johnston Annexation)	44,000 00
One 4 per cent. registered bond, due April 1, 1927, (Highways)	10,000 00
One 3 per cent. registered bond, due Jan. 1, 1912, (Highways)	5,000 00
One 3 per cent. registered bond, due May 1, 1930, (Water)	10,000 00
Two 3¼ per cent. registered bonds, due Nov. 1, 1932, (Fire and Police)	15,000 00
Cash	3,345 91
	<hr/>
	\$157,345 91

SINKING FUND OF 1925.**Sewer Loan.**

Nine 4 per cent. registered bonds, due April 1, 1927, Highways)	\$69,000 00
Three 3 per cent. registered bonds, due Jan. 1, 1912, (Highways)	3,000 00
Seven 4 per cent. registered bonds, due April 1, 1927, (Sewer)	130,000 00
One 3 per cent. registered bond, due May 1, 1931, (Sewer)	5,000 00
One 3 per cent. registered bond, due July 1, 1906, (Water)	5,000 00
Three 3 per cent. registered bonds, due May 1, 1930, (Water)	16,000 00
Two 3¼ per cent. registered bonds, due Nov. 1, 1930, (Fire and Police)	15,000 00
Three 4 per cent. notes, payable on demand.....	14,000 00
Cash	923 41
	<hr/>
	\$257,923 41

SINKING FUND OF 1926.

Sewer Loan.

Four 4 per cent. registered bonds, due April 1, 1927, (Highways)	\$32,000 00
Four 3½ per cent. registered bonds, due May 1, 1937, (Public Improvement)	80,000 00
One 3½ per cent. registered bond, due May 2, 1918, (City of Cambridge, Mass.)	14,000 00
One 3 per cent. registered bond, due Jan 1, 1912, (Highways)	5,000 00
One 3 per cent. registered bond, due May 1, 1930, (Water)	10,000 00
Three 3¼ per cent. registered bonds, due Nov. 1, 1932, (Fire and Police)	16,000 00
Cash	2,904 86
	<hr/>
	\$159,904 86

SINKING FUND OF 1927.

Sewer Loan.

Four 4 per cent. registered bonds, due April 1, 1927, (Highways)	\$42,000 00
Five 3 per cent. registered bonds, due July 1, 1906, (Water)	21,000 00
Four 3 per cent. registered bonds, due May 1, 1931, (Sewer)	8,000 00
One 3 per cent. registered bond, due May 1, 1930, (Sewer)	5,000 00
Two 3¼ per cent. registered bonds, due Nov. 1, 1932, (Fire and Police)	6,000 00
One 4 per cent. note, payable on demand.....	4,000 00
Cash	3,074 23
	<hr/>
	\$89,074 23

SINKING FUND OF 1928.

Sewer Loan.

Two 4 per cent. registered bonds, due April 1, 1927, (Highways)	\$21,000 00
Four 3 per cent. registered bonds, due Jan. 1, 1912, (Highways)	4,000 00
One 3 per cent. registered bond, due May 1, 1931, (Sewer)	5,000 00
One 3¼ per cent. registered bond, due Nov. 1, 1932, (Fire and Police).....	5,000 00
Cash	1,461 33
	<hr/>
	\$36,461 33

SINKING FUND OF 1929.

Sewer Loan.

Two 4 per cent. registered bonds, due April 1, 1927, (Highways)	\$10,000 00
One 3 per cent. registered bond, due May 1, 1930, (Sewer)	5,000 00
One 3¼ per cent. registered bond, due Nov. 1, 1932, (Fire and Police)	5,000 00
One 4 per cent. note, payable on demand.....	1,100 00
Cash	194 11
	<hr/>
	\$21,294 11

SINKING FUND OF 1930.

Sewer Loan.

One 4 per cent. registered bond, due April 1, 1927, (Highways)	\$5,000 00
One 3 per cent. registered bond, due May 1, 1930, (Sewer)	5,000 00
One 3¼ per cent. registered bond, due Nov. 1, 1932, (Fire and Police)	5,000 00
One 4 per cent. note, payable on demand.....	3,600 00
Cash	18 55
	<hr/>
	\$18,618 55

SINKING FUND OF 1931.

Sewer Loan.

One 3 per cent. registered bond, due May 1, 1930, (sewer)	\$5,000 00
One 3¼ per cent. registered bond, due Nov. 1, 1932, (Fire and Police)	5,000 00
Cash	2,412 94
	<hr/>
	\$12,412 94

SINKING FUND OF 1922.

Park Loan.

Two 4 per cent. registered bonds, due March 1, 1922, (Park)	\$2,000 00
Three 4 per cent. registered bonds, due April 1, 1927, (Highways)	50,000 00
Five 3½ per cent. registered bonds, due May 1, 1937, (Public Improvement)	100,000 00
Three 3 per cent. registered bonds, due Jan. 1, 1912, (Highways)	3,000 00
Three 3 per cent. registered bonds, due July 1, 1906, (Water)	7,000 00
One 3 per cent. registered bond, due May 1, 1930, (Water)	10,000 00

Two 3¼ per cent. registered bonds, due Nov. 1, 1932, (Fire and Police)	\$15,000 00
One 4 per cent. note, payable on demand.....	5,000 00
Cash	175 59
	<hr/>

\$192,175 59

SINKING FUND OF 1947.

Park Loan.

One 3 per cent. registered bond, due September 1, 1939, (Johnston Annexation).....	\$10,000 00
One 3 per cent. registered bond, due May 1, 1931, (Sewer)	5,000 00
One 3 per cent. registered bond, due May 1, 1930, (Sewer)	5,000 00
Three 3½ per cent. registered bonds, due May 1, 1947, (Park)	7,000 00
Three 3 per cent. registered bonds, due Jan. 1, 1912, (Highways)	3,000 00
One 3¼ per cent. registered bond, due Nov. 1, 1932, (Fire and Police).....	5,000 00
Cash	2,900 53
	<hr/>

\$37,900 53

SINKING FUND OF 1912.

Highway Loan.

One 3¼ per cent. registered bond, due Nov. 1, 1932, (Fire and Police).....	\$10,000 00
One 4 per cent. note, payable on demand.....	3,000 00
Cash	218 05
	<hr/>

\$13,218 05

SINKING FUND OF 1924.

Highway Loan.

Four 3½ per cent. registered bonds, due May 1, 1937, (Public Improvement)	\$80,000 00
Fifteen 3½ per cent. registered bonds, due May 1, 1947, (Park)	224,000 00
One 3½ per cent. registered bond, due Nov. 1, 1929, (City of Fall River, Mass.).....	30,000 00
Three 3 per cent. registered bonds, due May 1, 1930, (Water)	25,000 00
Three 3 per cent. registered bonds, due May 1, 1931, (Sewer)	12,000 00
Three 3 per cent. registered bonds, due Jan. 1, 1912, (Highways)	7,000 00
Two 3¼ per cent. registered bonds, due Nov. 1, 1932, (Fire and Police)	30,000 00
Four 4 per cent. notes, payable on demand.....	42,500 00
Cash	46 00
	<hr/>

\$450,546 00

SINKING FUND OF 1927.

Highway Loan.

Five 4 per cent. registered bonds, due April 1, 1927, (Highways)	\$28,000 00
Three 3½ per cent. registered bonds, due May 1, 1947, (Park)	60,000 00
Five 3 per cent registered bonds, due May 1, 1931, (Sewer)	14,000 00
Five 3 per cent. registered bonds, due July 1, 1906, (Water)	25,000 00
One 3 per cent. registered bond, due May 1, 1930, (Water)	10,000 00
Two 3¼ per cent. registered bonds, due Nov. 1, 1932, (Fire and Police)	15,000 00
Two 4 per cent. notes, payable on demand.	5,600 00
Cash	144 43
	<hr/>
	\$157,744 43

SINKING FUND OF 1930.

Highway Loan.

One 3 per cent. registered bond, due May 1, 1930, (Sewer)	\$5,000 00
One 3 per cent. registered bond, due May 1, 1931, (Sewer)	5,000 00
One 3 per cent. registered bond, due July 1, 1906, (Water)	1,000 00
One 3¼ per cent. registered bond, due Nov. 1, 1932, (Fire and Police)	5,000 00
One 4 per cent. note, payable on demand.	3,000 00
Cash	278 19
	<hr/>
	\$19,278 19

SINKING FUND OF 1929.

Weybosset Bridge Loan.

Five 4 per cent. registered bonds, due April 1, 1927, (Highways)	\$28,000 00
One 3 per cent. registered bond, due May 1, 1930, (Sewer)	5,000 00
One 3 per cent. registered bond, due May 1, 1931, (Sewer)	5,000 00
Two 3 per cent. registered bonds, due Jan. 1, 1912, (Highways)	2,000 00
Two 4 per cent. notes, payable on demand.	8,900 00
Cash	18 76
	<hr/>
	\$48,918 76

SINKING FUND OF 1932.

Fire and Police Loan.

One 4 per cent. note, payable on demand.....	\$5,000 00
Cash	271 34
	<hr/>
	\$5,271 34

SINKING FUND OF 1939.

Johnston Annexation Loan.

Two 4 per cent. registered bonds, due April 1, 1927, (Highways)	\$2,000 00
One 3 per cent. registered bond, due Jan. 1, 1912, (Highways)	5,000 00
One 4 per cent. note, payable on demand.....	2,500 00
Cash	110 99
	<hr/>
	\$9,610 99

SINKING FUND OF 1927.

School District No. 1, Town of Johnston.

One 4 per cent. note, payable on demand.....	\$1,000 00
Cash	1,728 64
	<hr/>
	\$2,728 64

SINKING FUND OF 1909.

School District No. 15, Town of Johnston.

Two 4 per cent. registered bonds, due April 1, 1927, (Highways)	\$6,000 00
Two 4 per cent. notes, payable on demand.....	5,000 00
Cash	153 49
	<hr/>
	\$11,153 49

SINKING FUND OF 1924.

School District No. 15, Town of Johnston.

Two 4 per cent. registered bonds, due April 1, 1927, (Highways)	\$2,000 00
One 4 per cent note, payable on demand.....	1,000 00
Cash	2,364 05
	<hr/>
	\$5,364 05

SINKING FUND OF 1912.

Town of Johnston Bonds.

Three 4 per cent. registered bonds, due April 1, 1927, (Highways)	\$3,000 00
One 4 per cent. coupon bond, due February 1, 1912, (Town of Johnston).....	1,000 00

One 3 per cent. registered bond, due Jan. 1, 1912, (Highways)	\$5,000 00
One 4 per cent. note, payable on demand.....	4,000 00
Cash	351 67
	<hr/>
	\$13,351 67

SINKING FUND OF 1917.

Town of Johnston Bonds.

Three 4 per cent. registered bonds, due April 1, 1927, (Highways)	\$3,000 00
Three 3 per cent. registered bonds, due Jan. 1, 1912, (Highways)	3,000 00
Two 3 per cent. registered bonds, due May 1, 1929, (Sewer)	2,000 00
Two 4 per cent. registered bonds, due Feb. 1, 1917, (Town of Johnston).....	2,000 00
Cash	959 31
	<hr/>
	\$10,959 81

NOT APPORTIONED.

Held by the Commissioners under Chapter 112, City Ordinances.

Two 4 per cent. notes, payable on demand.....	\$15,000 00
Cash	† 16,784 40
	<hr/>
	\$31,784 40

Total amount of funds September 30, 1903.... \$4,527,482 49

NORTH BURIAL GROUND PERPETUAL CARE FUND.

Held by the Commissioners in trust.

Eighteen 4 per cent. notes, payable on demand.....	\$170,400 00
Ten shares Boston and Providence Railroad Co.....	1,000 00
Eight shares Blackstone Canal National Bank.....	200 00
Five shares Providence and Worcester Railroad Co....	500 00
Cash	6,234 47
	<hr/>
	*\$178,334 47

* Of this amount \$12,185.31 is income.

† Includes \$16,163.80, balances, etc., for year ending September 30, 1903.

NORTH BURIAL GROUND SINKING FUND.

An extract from chapter 20, Revised Ordinances of 1899, creating a sinking fund for the payment of the indebtedness of the North Burial Ground.

SEC. 3. All rents derived from said North Burial Ground, and all fees or rewards for the use of the city on account thereof, that shall be paid to the Superintendent of said burial ground, or to any other person, and all income of whatever description derived from said burial ground, shall be paid to the city treasurer of the city of Providence, and together with the sums received from the sale of lots in said burial ground, less five cents per square foot for every square foot of land sold in said burial ground, except as provided in section twenty-two of this chapter, shall constitute the North Burial Ground improvement fund. Said five cents per square foot is hereby appropriated as a sinking fund for the extinguishment of any indebtedness of the city already contracted, or which may hereafter be contracted, principal or interest, on account of the purchase of land for or in said burial ground, unless otherwise ordered by the City Council.

The receipts on account of this fund began on the 30th of September, 1871, and the account to September 30, 1903, is as follows:

DR.

1880.

July	Paid to the Commissioners of Sinking Funds on account of notes due Dec. 19, 1880.....	\$29,000 00
Dec. 19.	Paid 6 per cent. interest on \$35,000 to date....	21,000 00
	Paid notes issued Dec. 19, 1870, for Corliss land	35,000 00
		\$85,000 00

CR.

1903.

Sept. 30.	By amount of sinking fund.....	\$5,005 79
	By amount received of the Commissioners....	7,152 07
	By notes due Dec. 19, 1880, paid from sinking funds	35,000 00
	To balance due.....	37,842 14
		\$85,000 00
North Burial Ground Land Account, as per balance sheet.		\$42,847 93
Amount of North Burial Ground Sinking Fund, September 30, 1903		5,005 79
Balance of indebtedness, September 30, 1903.....		\$37,842 14

TRUST FUNDS.

NORTH BURIAL GROUND PERPETUAL CARE FUNDS.

In charge of the Commissioners of Sinking Funds, as Trustees, under an act of the General Assembly passed April 25, 1889.

NAME OF FUND.	DATE ACCEPTED.	AMOUNT OF FUNDS.
Total previously reported, see 56th Annual Report.....		\$150,116 16
Hattie A. Elliott.....	October 8, 1902.....	50 00
Fannie J. Fleming.....	October 8, 1902.....	90 00
Louis Fritz.....	October 8, 1902.....	85 00
John Howarth.....	October 8, 1902.....	80 00
William McKenzie.....	October 8, 1902.....	35 00
Frank F. and Lavinia Morrow.....	October 8, 1902.....	150 00
Thomas Rich.....	October 8, 1902.....	150 00
Arnold G. Talbot.....	October 8, 1902.....	160 00
William F. Bradley and Charles F. Lord.....	November 6, 1902.....	100 00
Sarah L. Hammett.....	November 6, 1902.....	125 00
Margaret Marshall.....	November 6, 1902.....	90 00
Henry G. Luther.....	November 6, 1902.....	210 00
Ellen J. Fairpoint.....	November 6, 1902.....	60 00
Charles F. Searle.....	November 6, 1902.....	165 00
Mary Frances Appleton.....	November 6, 1902.....	60 00
Theodore Taylor.....	November 6, 1902.....	200 00
Amasa W. Angell.....	November 6, 1902.....	125 00
Ella B. Smith.....	December 5, 1902.....	90 00
John D. Presbrey.....	December 5, 1902.....	130 00
Mary B. Straight.....	December 5, 1902.....	50 00
Lyman A. Vaughn.....	December 5, 1902.....	120 00
Heirs of Nicholas Brown.....	December 31, 1902.....	900 00
Heirs of Nicholas Brown.....	January 6, 1903.....	300 00
Sarah Jane Hughes.....	January 6, 1903.....	80 00
Sarah Macnair.....	January 6, 1903.....	125 00
Adam N. Falconer.....	January 6, 1903.....	150 00
Martha Sheldon Ware.....	February 3, 1903.....	80 00
Charles E. Drown.....	February 3, 1903.....	90 00
Harry Parkin.....	February 3, 1903.....	80 00
Amount carried forward.....		\$154,246 16

NAME OF FUND.	DATE ACCEPTED,	AMOUNT OF FUNDS.
Amount brought forward.....		\$154,246 16
Daniel Barr.....	February 3, 1903.....	90 00
Lewis Kenyon.....	February 3, 1903.....	120 00
Hattie P. Blackmar.....	March 3, 1903.....	80 00
Robert McCullough.....	March 3, 1903.....	80 00
Stephen Brownell and Heirs of Seth Hunt.....	March 3, 1903.....	300 00
Stephen Brownell and Heirs of Seth Hunt.....	March 3, 1903.....	100 00
Edith Corsair.....	April 7, 1903.....	35 00
David T. Downie.....	April 7, 1903.....	100 00
Alexander G. Reid.....	April 7, 1903.....	110 00
Sarah Robinson.....	April 7, 1903.....	80 00
Harriet Newell Robinson.....	April 7, 1903.....	100 00
Elizabeth C. Stevenson.....	April 7, 1903.....	35 00
William E. Whiting.....	April 7, 1903.....	70 00
William D. Martin and Myron H. Fuller.....	May 5, 1903.....	165 00
Ida S. Humes.....	May 5, 1903.....	90 00
James A. Kyle.....	May 5, 1903.....	50 00
George W. Sawtell.....	May 5, 1903.....	80 00
Louis P. Brueckner.....	May 5, 1903.....	55 00
James P. Dalglish.....	May 5, 1903.....	50 00
Jennie G. Hall.....	May 5, 1903.....	115 00
Addie L. Lamson.....	May 5, 1903.....	80 00
Frederick Alexander.....	May 5, 1903.....	125 00
Ella R. Buckingham.....	May 5, 1903.....	35 00
Thomas R. Morpeth.....	May 5, 1903.....	150 00
Marietta C. Gardiner.....	May 5, 1903.....	35 00
Richard W. Jackson.....	May 5, 1903.....	120 00
Benjamin A. Jackson.....	May 5, 1903.....	375 00
Rev. Thomas A. Starkey.....	May 5, 1903.....	48 00
Job Arnold.....	June 5, 1903.....	140 00
Thomas Greene and Fernandez Bennett.....	June 5, 1903.....	115 00
Magdalena Buchholtz.....	June 5, 1903.....	80 00
John W. McKnight.....	June 5, 1903.....	90 00
Mary C. Miller.....	June 5, 1903.....	50 00
John Burke.....	June 5, 1903.....	90 00
Gustave W. Strandberg.....	June 5, 1903.....	95 00
Albert F. Titus and Frederick J. Mills.....	June 5, 1903.....	125 00
George W. Annis.....	July 3, 1903.....	150 00
William Joslin.....	July 3, 1903.....	90 00
Thomas Boyd.....	July 3, 1903.....	140 00
Amount carried forward.....		\$156,284 16

NAME OF FUND.	DATE ACCEPTED.	AMOUNT OF FUNDS.
Amount brought forward.....		\$158,284 16
Abigail Boyden.....	July 3, 1903.....	65 00
Lucy M. Dow.....	July 3, 1903.....	130 00
John Goodrich.....	July 3, 1903.....	90 00
Joseph S. Munroe and Edward Edgar.....	July 3, 1903.....	140 00
Jonathan and Charles B. Jenks.....	July 3, 1903.....	125 00
Mary Prosser.....	July 3, 1903.....	75 00
Fannie A. Gilbert and Catherine A. Kenyon.....	July 3, 1903.....	120 00
George D. Wilbur.....	July 3, 1903.....	80 00
Elias B. and William H. Hathaway.....	August 1, 1903.....	200 00
Alpa C. J. and Frank F. Learned.....	August 1, 1903.....	140 00
George Leigh.....	August 1, 1903.....	35 00
Thomas Wickens and Charles H. Starkey.....	August 1, 1903.....	80 00
George Miller.....	August 1, 1903.....	80 00
Adeline F. Chester.....	August 1, 1903.....	115 00
Adelaide Lennette Bishop.....	August 1, 1903.....	50 00
John Shore.....	September 15, 1903.....	90 00
Mary Etta Seers.....	September 15, 1903.....	50 00
George F. Collier.....	September 15, 1903.....	50 00
Annie E. Haslam.....	September 15, 1903.....	115 00
Homor P. Hunt.....	September 15, 1903.....	150 00
Heirs of Samuel Bridgman and W. S. Patten.....	September 15, 1903.....	550 00
John and John J. Burch.....	September 15, 1903.....	120 00
Almira G. Taylor.....	September 15, 1903.....	125 00
Total.....		\$161,069 16

In addition to the foregoing perpetual care funds held by the Commissioners of Sinking Funds, the sum of \$3,945.00 has been received by them from the Commissioners of the North Burial Ground, for the care of single graves.

Total amount of perpetual care funds for the North Burial Ground, exclusive of income..... \$165,004 16

For an account of the receipts and expenditures of these funds, see commissioners' annual report to the City Council.

ANNA H. MAN TRUST FUND.

[Extract from will of Anna H. Man.]

"4. All the rest and residue of my estate of which I shall die seized, possessed or entitled to, both real and personal, I give, devise, and bequeath to said City of Providence to have and to hold forever in trust as a fund, in such manner and form of investment as the said city may choose, and apply the net income thereof to the support and maintenance of Roger Williams Park, now owned by said city, as a public park, mingling said income with other moneys expended upon said park in such manner as to said city shall seem best."

This fund is invested as follows, viz.:

200 shares National Exchange Bank, par value.....	\$10,000 00
58 shares Mechanics National Bank, par value.....	2,900 00
55 shares National Bank of North America, par value..	5,500 00
110 shares Bank of Commerce, par value.....	5,500 00
50 shares American National Bank, par value.....	2,500 00
Lot 61, Assessors' Plat 10, with building, North Main Street, Assessors' valuation.....	10,440 00
Lot 236, Assessors' Plat 29, Cranston Street, Assessors' valuation	4,564 00
Lot 240, Assessors' Plat 29, Cranston Street, Assessors' valuation	8,507 00
Lot 313, Assessors' Plat 29, Broad Street, Assessors' valuation	12,177 00
Wood lot in Town of Norfolk, Mass., Assessors' valuation	120 00
Six 4 per cent. notes, payable on demand.....	137,900 00
Cash	28 08
	\$200,133 08

THE CHARLES H. SMITH TRUST FUND.

[Extract from will of Charles H. Smith.]

"SEVENTH. I give and bequeath unto the city of Providence, a municipal corporation created by the General Assembly of said State of Rhode Island, the sum of one thousand dollars (\$1,000), in perpetual trust, to be held and invested by said city as a permanent fund with power in its discretion to change and transpose the investment thereof—the net annual income accruing therefrom to be applied to the purchase of microscopes, microscopical instruments and books on microscopy, for use in the English and Scientific Department of the High Schools in the city of Providence, or to the giving of lectures to the pupils in said department—such purchases to be made and lectures given in the discretion and under the direction of David W. Hoyt so long as he shall occupy the position of principal of the Providence High School or of any department in the High Schools of the city of Providence, and after he shall cease to occupy

such position, then in the discretion and under the direction of the Superintendent of Schools for the time being of said city."

On deposit in Rhode Island Hospital Trust Co.,

Participation Account	\$1,053 41
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DEXTER DONATION FUND.

[Held under the 17th and 18th sections of the will of Ebenezer Knight Dexter.]

City of Providence sewer bonds, dated May 1, 1901, payable

May 1, 1931, bearing interest at 3 per cent. per annum

\$75,000 00

Balance on deposit.....	2,231 38
-------------------------	----------

\$77,231 38

TILLINGHAST DONATION FUND.

[Extract from the will of Lydia Tillinghast, proved November 18, 1822.]

"I give to the Town of Providence, two hundred dollars, to be by them applied, or under their direction, as a fund, the interest or income thereof to be used for the relief, comfort and support of the poor of any or all society and colors."

This fund was invested in four shares of the capital stock of the Union Bank, par value \$50. Total fund, \$200.00. Of this amount the sum of \$182.38 has been received in liquidation, and is on deposit. (See page 2 of this report.)

SENATOR ANTHONY PRIZE FUND.

See City Auditor's annual report for the year ending September 30, 1886, page 18, and chapter CIII. of the city ordinances, approved December 8, 1887.]

On deposit in Rhode Island Hospital Trust Co.,

Participation Account.....	\$3,005 63
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MARY SWIFT BRAGUNN FUND.

[See page 24, City Auditor's annual report for year ending September 30, 1886.]

On deposit in Rhode Island Hospital Trust Co.,

Participation Account	\$592 48
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GENERAL SUMMARY OF TRUST FUNDS.

North Burial Ground Perpetual Care Funds.....	\$178,334 47
North Burial Ground Sinking Fund.....	5,005 79
Anna H. Man Trust Fund.....	200,136 08
Charles H. Smith Trust Fund.....	1,053 41
Dexter Donation Fund.....	77,231 38
Tillinghast Donation Fund.....	182 38
Senator Anthony Prize Fund.....	3,005 63
Mary Swift Bragunn Fund.....	592 48
Total	\$465,541 62

CITY TAX OF 1903.

RESOLUTION PROVIDING FOR THE ASSESSMENT AND COLLECTION OF TAXES.

(Approved May 22, 1903.)

RESOLVED, That the City Council hereby orders the assessment and collection of a tax on real and personal estate of one dollar and sixty-five cents on each one hundred dollars' of the value thereof; the said assessment comprises the following: For ordinary expenses, including a deficit of \$81,413 09 brought forward from 1901-2, one hundred and four and one-half cents on each one hundred dollars; for interest and sinking-funds, forty-four and one-half cents on each one hundred dollars; for the city's proportion of the State tax for the year 1903, which is hereby assumed, sixteen cents on each one hundred dollars. The Board of Assessors shall assess and apportion said tax on the inhabitants and ratable property in said city on the first day of July, A. D. 1903, according to law, and conformably to the rules and regulations of the City Council, and shall certify and deliver to the City Treasurer said assessment on the first day of September, A. D. 1903. Said tax shall be paid to and collected by the City Treasurer on and between the first and twenty-first days of October, A. D. 1903, inclusive. The City Treasurer shall, by advertisement in the public newspapers of the city, notify all persons assessed to pay their respective taxes at his office on and between the said first and twenty-first days of October, 1903, inclusive; said Treasurer shall attend daily during said period, Sundays excepted, at his office, from nine o'clock A. M. to five o'clock P. M., to receive said taxes, except Saturdays, when he shall attend from nine o'clock A. M. to twelve o'clock M.

All persons who shall not pay their respective taxes during the period aforesaid, shall pay respectively in addition thereto a percentage thereon at the rate of eight per centum per annum, from the said first day of October.

CITY TAXES.

Statement showing the *Assessors' Valuation* of the Real and Personal Property of the City of Providence for the years, 1830, 1865, 1870, 1875, 1880, 1885, and each year since; also the rate per cent. and the amount of tax raised in each year.

YEAR.	Real Estate.	Personal Estate.	Total.	Rate of Tax.	Amount of Tax.
1869.....	\$37,089,800	\$21,042,000	\$58,131,800	\$5 00 per \$1,000	\$325,538 08
1865.....	39,479,500	41,084,800	80,564,300	9 80 " "	789,513 12
1870.....	52,511,800	40,565,100	93,079,900	13 50 " "	1,256,538 15
1875.....	82,862,900	39,091,800	121,954,700	14 50 " "	1,768,343 15
1880.....	88,012,100	27,908,900	115,921,000	13 50 " "	1,564,933 50
1885.....	92,887,400	31,314,600	124,202,000	14 50 " "	1,800,929 00
1886.....	97,975,900	32,281,200	130,257,400	14 00 " "	1,823,903 60
1887.....	99,779,580	34,267,680	134,047,260	14 50 " "	1,943,685 27
1888.....	100,924,720	35,837,840	136,762,560	15 00 " "	2,051,438 40
1889.....	102,850,100	37,627,240	140,477,340	15 00 " "	2,107,160 10
1890.....	104,684,440	35,932,620	140,617,060	15 00 " "	2,109,255 90
1891.....	109,428,720	37,473,120	146,901,840	15 00 " "	2,203,527 60
1892.....	114,656,860	40,885,660	155,542,520	15 00 " "	2,333,137 80
1893.....	119,001,700	40,810,860	159,812,560	16 00 " "	2,557,000 96
1894.....	126,463,800	40,800,400	167,264,200	16 00 " "	2,676,227 20
1895.....	129,438,060	40,351,000	169,789,060	16 00 " "	2,716,624 96
1896.....	133,296,200	40,936,300	174,232,500	16 50 " "	2,874,836 25
1897.....	135,805,460	38,237,020	174,042,480	16 50 " "	2,871,700 92
1898.....	142,430,200	39,127,920	181,558,120	16 50 " "	2,996,708 98
1899.....	146,701,800	41,799,880	188,501,780	16 50 " "	3,110,279 37
1900.....	149,094,840	43,022,400	192,117,240	16 00 " "	3,073,875 84
1901.....	151,533,940	41,267,920	192,801,860	16 00 " "	3,084,829 76
1902.....	154,711,860	43,161,140	197,873,000	16 00 " "	3,165,968 00
1903.....	157,427,460	43,241,080	200,668,540	16 50 " "	3,311,030 91

The dates and valuations of annexed districts were:

From Cranston.....	1868, real	\$3,063,700 00,	personal	\$347,800 00
" North Providence....	1874, "	9,802,800 00,	"	1,356,400 00
" Cranston	1892, "	179,240 00,	"	24,300 00
" Johnston	1886, "	4,350,000 00,	"	567,900 00

CONTRACTS.

The following statements of incompleting contracts at the close of the fiscal year, were presented to the City Auditor in compliance with chapter 12, section 11, of the ordinance in relation to finance:

DEPARTMENT OF PUBLIC WORKS.

WATER DEPARTMENT.

NAME OF CONTRACTOR.	DATE OF CONTRACT.	WORK CONTRACTED FOR.	Estimated Amount of Contract.	Bills Approved on Account of Contract.	Estimated Amount to Become Due.
Starkweather & Williams Co.....	Dec. 5, 1902...	Furnish Green Copperas, in bulk.....	All required in 1903.	All furnished to Sept. 30, 1903.	All required to Dec. 31, 1903.
Builders Iron Foundry.....	Dec. 18, 1902...	Furnish iron castings.....	All required in 1903.	All furnished to Sept. 30, 1903.	All required to Dec. 31, 1903.
Edward W. Everson } Frederic E. Shaw }	July 15, 1902...	Build sand filtration plant.....	\$198,249 80	\$63,267 50	\$134,982 21
Ludlow Valve Mfg. Co.....	July 18, 1902...	Furnish gates, valves and pipes.....	4,457 50	4,311 62	145 88
Chase-Shawmut Co.....	July 18, 1902...	Furnish electrical appliances.....	7,850 00	.....	7,850 00

SEWER DEPARTMENT — Construction.

H. R. Horton Co.....	Dec. 23, 1902...	Furnish cement.....	All required in 1903, not to exceed 7,000 bbls.	All furnished to Sept. 30, 1903.	All required to Dec. 31, 1903.
Timothy F. Lyons.	Nov. 12, 1902...	Build sewer in Branch avenue.....	\$7,879 96	\$6,721 70	\$1,158 28

SEWER DEPARTMENT — Construction. — Continued.

NAME OF CONTRACTOR.	DATE OF CONTRACT.	WORK CONTRACTED FOR.	Estimated Amount of Contract.	Bills Approved on Account of Contract.	Estimated Amount to Become Due.
Frederick E. Shaw.....	Apr. 28, 1903....	Build sewer in Weymouth street and Lloyd avenue.	\$1,086 53	\$2,412 41	\$673 12
Frederick E. Shaw.....	Apr. 28, 1903....	" " Wayland, Cole and University aves..	3,584 40	2,902 16	682 24
Frederick E. Shaw.....	Aug. 19, 1903....	" " North Main street.....	2,869 30	633 73	2,235 57
Frederick E. Shaw.....	Apr. 28, 1903....	" " Atwells ave., Pine and Broad sts....	2,518 40	81 02	2,437 38
Timothy F. Lyons.....	May 1, 1903.....	" " Merino avenue.....	4,183 30	622 80	3,561 00
Frederick E. Shaw.....	Aug. 19, 1903....	" " West Park and Bath streets.....	2,849 00	.....	2,849 00
Frederick E. Shaw.....	Aug. 19, 1903....	" " Reservoir avenue.....	675 45	.....	675 45

SEWER DEPARTMENT — Improved Sewerage System.

George R. Newman.....	May 1, 1903....	Build sewer in Seakonk division, section 30.....	\$34,886 50	\$15,033 74	\$9,861 76
H. R. Horton Co.....	Dec. 23, 1902....	Furnish cement.....	All required in 1903, not to exceed 7,000 bbls.	All furnished to Sept. 30, 1903, to Dec. 31, 1903.	All required

HIGHWAYS.

Union Railroad Co.....	Jan. 30, 1902....	Furnish and operate sprinkling cars.....	15 cents per car mile.	To Sept. 30, 1903.
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SUMMARY OF INVENTORIES OF PERSONAL PROPERTY.

Reported in compliance with the provisions of Section 40, Chapter 12,
Revised Ordinances of 1890:

Elections Department			\$14,990 30
Fire Department			246,428 91
Harbor			763 00
Health Department			2,803 16
Milk Inspection Department.....			2,123 50
North Burial Ground.....			3,102 70
Plumbing Inspection Department.....			381 50
Police Department			91,355 46
Poor Department			3,029 00
Public Buildings Department.....			5,370 50
Public Parks Department.....			47,423 44
Public Schools Department:			
Books and supplies.....	\$5,996 69		
Janitors' supplies.....	306 14		
Team account.....	375 00		
Furniture and repair shop.....	1,083 16		
			7,760 99
Weights and Measures.....			1,029 68
Department of Public Works:			
City Engineers	\$4,647 00		
Highways	69,924 38		
Public Bridges	4,626 83		
Sewer Construction	14,109 12		
Sewer Maintenance.....	35,630 39		
Public Lights	25,383 39		
Water Works:			
Pipe Yard.....	\$41,600 03		
Hope Station	514 47		
Pettaconset Station	10,890 02		
Sockanosset Reservoir	12 00		
Fruit Hill Reservoir	56 95		
Meter Department..	5,439 27—	58,512 74—	212,833 85
Treasury Department			455 00
Total			\$639,853 99

INVENTORY

OF REAL ESTATE BELONGING TO THE CITY OF PROVIDENCE.

WATER WORKS.

The official history of a public water supply for the City of Providence began March 21, 1853, at which time the City Council created a committee to examine and report upon the subject. The question was considered by five different committees, and six reports were made thereon between 1853 and 1868. It was also submitted to the taxpayers four times, voted down three times, viz., 1853, 1856, and 1866, and finally in 1868 the plan providing the Pawtuxet river as the source was adopted. Public ceremonies attending the introduction of Pawtuxet water were held Thanksgiving day, November 30, 1871. The first service pipe for consumers was opened December 1, 1871, for the Providence Opera House.

A

PETTACONSET PUMPING STATION.—This station is situated on the Pawtuxet river, about six miles from the City Hall. The lands comprise a portion of the "Aldridge Farm," containing, exclusive of the river, 67.57 acres, all but 400-1000 acres of which lie in Cranston, the remainder being in Warwick. On the farm are three neat one and one-half story cottages, occupied by the superintendent and two pumping engineers without charge for rent. A temporary engine and boiler-house was erected in 1871, on the bank of the river, in which is a Worthington engine capable of pumping 5,000,000 gallons in twenty-four hours. A permanent fire-proof engine house of Danvers pressed brick and Westerly granite, with slated iron roof, was built in 1873-74, which contains a Cornish engine of a capacity of about 9,000,000 gallons, and a Worthington vertical triple expansion engine with a capacity of 15,000,000 gallons in twenty-four hours. An additional engine house was built near the bank of the river in 1881-82, in which is an engine of about 9,000,000 gallons capacity. Both house and engine were erected by George H. Corliss, and in 1885, a coal-house was added. Two lines of about 950 feet each in length of 36-inch force mains are laid in this tract. A strip of land 50 feet wide and about 360 feet long, also in Cranston, is used as a road from the northerly part of the Aldridge Farm to the Pontiac road. There are about 68.83 acres, including a proposed highway and a small burial lot, in Warwick, bordering upon the river, being portions of the Rhodes and Chace farms.

WATER WORKS, *Continued.*

Town of Cranston:

Aldridge Farm, about.....	87.164 acres
Force main line.....	5.90 acres
Total, about.....	73.064 acres

Total assessors' valuation of all property in the town of Cranston, including property inventoried under paragraphs marked "B" and "D".....

\$563,215 00

Town of Warwick:

Rhodes and Chace farms, about.....	68.829 acres
Aldridge farm, about.....	0.406 acres

Total, about..... 69.235 acres

Assessors' valuation \$6,000 00

Total number of acres of land at Pettaconsett..... 142.299

FORCE MAIN LINE.—After leaving the "Aldridge Farm," and crossing the Pontiac road under a dry bridge, the lands for the force main lines consist of a strip 100 feet wide and about 1,820 feet long; then of a strip 50 feet wide for about 1,500 feet when the southwesterly line strikes the Sockanosset hill cross-road, and runs along the said road to the so-called New London turnpike, on which last-named road the strip measures 26 90-100 feet. The mains cross the turnpike and are laid in the cross-road until within about 200 feet of the reservoir embankment, when they enter the "reservoir lands" and continue in said lands to the inlet chamber.

B

SOCKANOSSET RESERVOIR ESTATE.—This estate is on Sockanosset Hill, in the town of Cranston, and contains about 127.898 acres. This estate was purchased from Joseph S. Budlong, December 5, 1870, John C. Harris, *et al.*, December 30, 1870, Stephen B. Gardner, May 3, 1870, and Richard Hill, December 5, 1870, and comprises a farm of 101 acres on the westerly side of the cross-road, as said road was formerly located; a lot of about 3 acres, and a tract of about 13 acres, both on the westerly side of said cross-road, the latter near the inlet chamber of the reservoir; and 12 2,054-10,000 acres on the easterly side of said road. A portion of the old cross-road was declared useless as a public highway, and 50 feet in width of the last named tract was made a road instead. This new road now forms the eastern boundary of most of the reservoir land. A small portion of this tract is embraced in the increased width of the road between the reservoir and the old turnpike. The reservoir covers about 14 acres embracing a portion of the farm and a portion of the old cross-road, a portion of the last named tract, and the whole of the 3-acre lot, and has a capacity of about 51,000,000 gallons. A stone cottage was erected near the inlet chamber, and is occupied by the keeper of the reservoir without charge for rent. Assessors' valuation given in total under paragraph "A."

WATER WORKS, Continued.

LEADING MAIN LINE.—The leading mains, after crossing the narrow border between the outlet chamber and the new cross-road, and after crossing said road, are laid in a new road (since named Reservoir avenue), eighty feet in width and a little more than a mile in length; the pipes crossing the Pocasset river underneath an iron bridge. The new road enters the New London turnpike (now Reservoir avenue), which has been widened to eighty feet and graded to the city line, and from thence, also as Reservoir avenue, to the New York, New Haven and Hartford railroad bridge. 30-inch pipes are laid in this highway, except for a short distance near the railroad bridge, where they deviate from the street northwesterly and pass under said railroad to avoid the bridge. The line continues through Reservoir and Elmwood avenues to Broad street, in Broad to Winter, through Winter to Westminster, in Westminster to Dean, in Dean to Washington, in Washington to the crossing in Mathewson street, where it is reduced to 24-inch, and continues through Washington street to Exchange Bridge, under which it passes to the east side of the river, and from the bridge across Canal street; through Steeple street to North Main street, and in North Main northerly to Olney street, up Olney street to Hope pumping station; and southerly in North Main street to Market Square, in Market Square to College street, in College street to Prospect street, in Prospect to Waterman, and in Waterman street to Thayer street, from which point 30-inch pipes have been laid up Thayer street to the reservoir, connecting with its southeasterly corner. Twenty-four inch pipes are in Waterman street, from Thayer to Governor, uniting at the last named street with a 16-inch line in Governor. The 30-inch line branches at the junction of Elmwood avenue and Public street, and passing through Public, Eddy and Dyer, reduces to 24-inch at Dorrance, thence continuing in Dyer to Weybosset bridge, under which it passes to the east side of the river, thence south of the old city building to a connection with the other 24-inch mains in Market Square. In 1874 a second line of 30-inch leading mains was laid from Sockanosset reservoir by the side of the first line, to the junction at Elmwood avenue and Public street. Valuation of leading mains, \$448,847.

DISTRIBUTION.—In addition to the force main and leading main lines laid as above named, there have been laid of 20-inch pipe, 9,626.59 feet; of 16-inch, 34,087.51 feet; of 12-inch, 104,715.98 feet; of 10-inch, 15,057.14 feet; of 8-inch, 290,032.84 feet; of 6 inch, 1,223,534.62 feet; comprising a total of all sizes, including force and leading mains, of 1,792,225.27 feet, or 339.436 miles. Valuation of distribution mains, \$1,564,116.00.

SPECIAL SERVICE FOR FIRE PROTECTION.—Water mains for a special service for fire protection for the business section of the city are laid and supplied with water from Fruit Hill reservoir by connecting at Randall square with the 24-inch pipe leading from the Hope pumping engines to the Fruit Hill reservoir, as follows: of 24-inch, 4,188.58 feet; of 16-inch, 23,004.37 feet; 12-inch, 2,215.76 feet; total of all sizes, 29,408.71 feet, or 5.569 miles. Ninety-two hydrants are connected with these mains. Valuation of special service for fire protection, \$140,060.00.

WATER WORKS, *Continued.*

C

HOPE RESERVOIR.—This reservoir is located in the city, within the square formed by Olney, Hope, Barnes, and Brown streets. The lands purchased and taken comprise about eighteen and one-half acres or 806,144 square feet, being lot No. 215 on plat 9. The reservoir has a capacity of about 76,000,000 gallons. At the northwesterly corner of the reservoir lands, on Olney street, stands the high service engine house. This is a fine building of Westerly, Concord, and Quincy granites, and Danvers pressed brick, with iron roof partly slated and partly tinned. Two pumping engines have been erected therein, each of a capacity of 5,000,000 gallons in 24 hours—one by the Holly Manufacturing Company, and the other by the Providence Steam Engine Company. Assessors' valuation of land, \$161,229; buildings and improvements, \$200,000; total, \$361,229.

D

WATER PRIVILEGES AND LAND IN PAWTUXET.—The property in the village of Pawtuxet, belonging to the city, was conveyed by the American Wood Paper Company, December 8, 1870, in consideration of the sum of \$50,000. It is situated partly in the town of Cranston and partly in the town of Warwick, the river at this place being the dividing line between the said towns, and consists of the water privileges on both sides of the river; the cotton mill estate, with a lot of land about ninety-six feet square, rented to S. R. Green for \$50.00 per annum, and George W. Wall for \$50.00 per annum; the Randall estate adjoining, containing about nine and one-half acres, all on the Cranston side of the river, rented to the Union Railroad Company for \$35.00 per annum; Frank A. Johnston, for \$40.00 per annum; the farm and buildings thereon are unoccupied. Two lots or parcels of land adjoining each other on the Warwick side of the river, rented to H. L. Johnson for \$87.00 per annum, and Manuel C. Lima for \$75.00 per annum. The wooden cotton mill standing on this property when purchased was destroyed by fire on the evening of January 15, 1875.

Assessors' valuation:

Town of Warwick,	17,400 square feet of land, valued at...	\$7,000
Town of Cranston,	505,247 square feet of land, valuation in-	
	cluded in total paragraph "A."	

Total.....	522,647
------------	---------

E

LAND IN LINCOLN.—This land, consisting of about twenty-two acres, is situated on Stump Hill, so-called, in the town of Lincoln, and was purchased for the location of a high service reservoir. About fifteen and one-half acres were conveyed to the city by George W. Himes, July 30, 1875, six acres by George W. Olney, August 31, 1875, and about one-half acre by Orin Smith, October 30, 1876. Assessors' valuation, town of Lincoln, \$2,100. In 1901, by deeds of exchange with Orin Smith and Hannah E. Ballou, the southwesterly bound-

WATER WORKS, *(Continued).*

ary of this estate, together with the lines of the right of way from the Cobble Hill Road, were straightened and revised.

F

FRUIT HILL RESERVOIR ESTATE.—This land, containing about 30,372 acres, was purchased for the location of a high-service reservoir to be situated on Fruit Hill, in North Providence, and a road leading thereto, and was conveyed to the city as follows: 24 161-1000 acres by Stephen B. Olney, April 8, 1886; 2 484-1000 acres by Thomas H. Smith, June 19, 1886; 1 67-1000 acres by Walter S. Seamans and wife, July 14, 1886; 1 242-1000 acres by Walter W. Whipple, July 26, 1886; 837-1000 acres by Carleton, Norwood & Co., July 23, 1886; and 495-1000 acres by Charles Peckham, July 15, 1886.

The Fruit Hill reservoir has a capacity of about 25,000,000 gallons, and is connected with Hope pumping engines on Olney street by a 24-inch pipe line. This line lies in the following streets, avenues and courts: Olney, Camp, Lippitt, North Main, Stevens, Charles, Ashburton, Inez, Victor, Delhi, Chalkstone, Smith and High Service.

The sum of \$400 is paid annually for the right to maintain water works in the town of North Providence (see City Council resolutions Nos. 225 and 279, series of 1885).

Valuation of land, \$8,000; improvements, \$150,000; total, \$158,000.

EXPENDITURES.—Total expenditures for the construction and maintenance of the water works to September 30, 1903, inclusive, as shown by the books in the office of the Commissioner of Public Works, was \$9,515,577.60. Receipts for rent, labor, material, etc., \$1,024,183.03. Receipts for water supplies, \$11,169,287.37. Total receipts, \$12,193,470.40. Excess of receipts over expenditures, \$2,677,892.80.

SUMMARY WATER WORKS.

AREA, ACRES.	ASSESSORS' VALUATION.		
	Land.	Buildings and Improvements.	Total.
341.159	\$750,544 00	\$2,503,023 00	\$3,253,567 00

MISCELLANEOUS REAL ESTATE.

FIRST WARD.

1

THE CITY BUILDING, or "Market House," situated on Market Square, built of brick, three stories high, leased to the Providence Board of Trade at \$4,000 per annum. This estate, of which no deed is on record,

MISCELLANEOUS REAL ESTATE, *Continued.*

is designated as lot No. 24, on plat 12, and contains 3,460 square feet. Assessors' valuation of land, \$51,900; building, \$15,000; total, \$66,900.

The following in regard to the title of this land is a copy of a part of an opinion of Benjamin N. Lapham, Esq., City Solicitor, given to the City Council, October 11, 1864, as recorded in City Council Records No. 5, for 1863-1867, pages 210 to 211, in the office of the City Clerk:

"As I am not able to find on the records any conveyance of the lot, and as it appears to have been, from the earliest time when I can find any reference to it, in the possession of the proprietors of the town and city, and to have been treated and used as land belonging to the proprietors and the town, I have come to the conclusion that the fee simple to this lot was originally in the proprietors of the town, and that it has never been alienated, and that the title of the city is by possession."

The following item of interest was compiled in the office of the Record Commissioners, November 23, 1893, from documents in their possession:

"The first decided steps towards the erection of the Market House was the issuing of the scheme of a lottery, April 28, 1772. At that time a large part of the ground where the building stands was under water. To the northward of it stretched out the Weybosset Bridge, or Great Bridge, as it was then, and is now called; it was twenty-two feet wide, and was located about where the north sidewalk is now, but extending nearly one hundred feet further east. Work was first commenced by filling up the land, which was done under an agreement with John Brown, in September, 1772; towards the close of that year Joseph Andrews built a bank wall around the land thus made. In August, 1773, the west wall of the Market House lot was extended northward to the south side of the bridge and the land between the bridge and the Market House was filled in. The first brick of which the building is constructed was laid in August, 1773. The first stall of which there appears any record, was built in the winter of 1776-7. In 1777 the stalls were disposed of at Public Vendue. Scales for weighing were put in in 1777. A portion of the building was used for a fire engine house in 1779 and for many years after. During the stay of the French troops in Providence, in 1781, the Market House was appropriated to their use. In 1783 the building was refitted. In 1785 an attempt was made to beautify its surroundings by setting trees and posts on the Market House parade (the space to the North and West). Since this time it has undergone many changes. It was occupied by the offices of the town for many years, and by the city until the erection of the City Hall in 1878."

2

LOT on north side of Waterman street, at west end of Red bridge, purchased of the proprietors thereof in 1870, fronting about 86 feet on Waterman street and extending back about 51 feet, being lot No. 340, on plat 15, and containing 1,609 square feet. A brick dwelling house located on this lot is occupied by the keeper of the bridge. Assessors' valuation of land, \$255; building, \$2,000; total, \$2,255.

MISCELLANEOUS REAL ESTATE, *Continued.*

3

LAND on south side of Waterman street, at west end of Red bridge, purchased of the proprietors thereof in 1870, fronting about 91 feet on Waterman street and about 43 feet on the Seekonk river, being lot No. 341, on plat 15, and containing 1,864 square feet. Assessors' valuation, \$280.

4

WHARF ESTATE on South Water street, south of and at the east end of the Point street bridge, being lot No. 2, on plat 18, and containing 5,642 square feet, purchased in 1870 of the Providence and Worcester Railroad Company. Rented to Frank F. Carpenter at \$200 per annum. Assessors' valuation, \$7,053.

5

DOCK and wharf at foot of James street. Assessors' valuation not adjusted. A public landing float is located at this dock.

6

LOT on south side of Tockwotton street, extending southerly to India street, being lot No. 156 on plat 17, and containing 50,978 square feet. Assessors' valuation, \$8,547.

7

LOT on east side of Gano street, and extending to the harbor line, being lot No. 580 on plat 17, and containing 58,650 square feet. Assessors' valuation, \$10,557.

8

LOT on north side of India street, near the foot of Hope street, being lot No. 289 on plat 18, and containing 8,517 square feet. Assessors' valuation, \$2,129.

Within this lot is located the "Abbott Lot," conveyed to the town of Providence, August 1, 1751, by Daniel Abbott, for a watering place forever. It fronts on India street, on which it measures 40 feet, and extends back to Hope street, and contains 1,788 square feet, the same being part of the above measurement of lot No. 289.

BROOK STREET DISTRICT. Parcels No. 6 to 8, inclusive, in this schedule, were formerly a part of the Brook Street District. This district originally comprised land bounded by Traverse street on the west, Wickenden street on the north, and India street on the south, taken by the City of Providence, under an act of the General Assembly, passed at its January session, A. D. 1873, for the purpose of grading and draining the same and other portions of the city.

MISCELLANEOUS REAL ESTATE, *Continued.*

SECOND WARD.

9

LOT at the junction of Stampers and Hewes streets, vacant land, formerly part of a street, being lot No. 377 on plat 2, and containing 353 square feet. Assessors' valuation, \$88.

10

LOT on Printery street, near Randall street, being lot No. 381 on plat 2, and containing 1,850 square feet. This lot was deeded to the city in 1842 for drainage and highway purposes. Assessors' valuation, \$390.

11

LOT on Printery street, being lot No. 254 on plat 2, and containing 2,053 square feet, bought of John Tulley in 1875, for the purpose of widening Nash lane. Assessors' valuation, \$411.

12

LOT on Blackstone Boulevard, bought of Richard W. Greene in 1866 for gravel for highway purposes, being lot No. 15 on plat 40, and containing 40,000 square feet. Assessors' valuation, \$2,400.

13

LOT on Blackstone Boulevard, bought of G. F. Martin and wife in 1885, being lot No. 127 on plat 40, and contains 20,000 square feet. This lot was purchased for gravel for highway purposes. Assessors' valuation, \$1,200.

14

LOT on northwesterly corner of Cemetery and Collyer streets, taken for the layout of Cemetery street as made by the Board of Aldermen, February 19, 1891, being lot No. 253 on plat 75, and containing 1,032 square feet. Assessors' valuation, \$62.

15

LOT on southwesterly corner of Cypress and Knowles streets, being lot No. 398 on plat 5; fronting about 47 feet on Cypress street, about 119 feet on Knowles street, and containing 4,428 square feet. Assessors' valuation, \$886.

16

LOT on south side of Cypress street, between Knowles and Camp streets, being lot No. 452 on plat 5; fronting 50 feet on Cypress street, extending back 100 feet, and containing 5,000 square feet. Assessors' valuation, \$600.

MISCELLANEOUS REAL ESTATE, *Continued.*

17

Lot on south side of Cypress street, between Knowles and Camp streets, being lot No. 453 on plat 5; fronting 50 feet on Cypress street, extending back 100 feet, and containing 5,000 square feet. Assessors' valuation, \$500.

18

Lot on south side of Cypress street, between Knowles and Camp streets, being lot No. 454 on plat 5; fronting 50 feet on Cypress street, extending back 100 feet, and containing 5,000 square feet. Assessors' valuation, \$250.

19

Lot on south side of Cypress street, between Knowles and Camp streets, being lot No. 455 on plat 5; fronting 50 feet on Cypress street, extending back 100 feet, and containing 5,000 square feet. Assessors' valuation, \$250.

20

Lot on south side of Cypress street, between Knowles and Camp streets, being lot No. 456 on plat 5; fronting about 80 feet on Cypress street extending back 100 feet and having a width in the rear of about 27 feet, and containing 5,391 square feet. Assessors' valuation, \$539.

21

Lot on southwesterly corner of Camp and Cypress streets, being lot No. 457 on plat 5; fronting 50 feet on Camp street, about 140 feet on Cypress street, and containing 7,006 square feet. Assessors' valuation, \$1,752.

22

Lot on the north side of Cypress street, between Camp and Knowles streets, being lot No. 458 on plat 5; fronting 50 feet on Cypress street, extending back about 89 feet, and containing 4,456 square feet. Assessors' valuation, \$223.

23

Lot on north side of Cypress street, between Camp and Knowles streets, being lot No. 459 on plat 5; fronting 50 feet on Cypress street, extending back about 89 feet, and containing 4,449 square feet. Assessors' valuation, \$222.

MISCELLANEOUS REAL ESTATE, *Continued.***24**

LOT on north side of Cypress street, between Camp and Know streets, being lot No. 460 on plat 5; fronting 50 feet on Cypress street, extending back about 89 feet, and containing 4,431 square feet. Assessors' valuation, \$222.

25

LOT on north side of Cypress street, between Camp and Know streets, being lot No. 461 on plat 5; fronting 50 feet on Cypress street, extending back about 88 feet, and containing 4,405 square feet. Assessors' valuation, \$529.

26

LOT on northeasterly corner of Knowles street and Duncan avenue, being lot No. 450 on plat 5; fronting about 67 feet on Duncan avenue, about 19 feet on Knowles street, and containing 6,090 square feet.

The Butler Exchange Co., owns a narrow strip of land about 82 feet long between this lot and Knowles street, thus leaving the city only nineteen feet fronting on said Knowles street. Assessors' valuation, \$914.

27

LOT on north side of Duncan avenue, between Knowles and Camp streets, being lot No. 449 on plat 5; fronting fifty feet on Duncan avenue, extending back 100 feet, and containing 5,000 square feet. Assessors' valuation, \$750.

28

LOT on north side of Duncan avenue, between Knowles and Camp streets, being lot No. 448 on plat 5; fronting fifty feet on Duncan avenue, extending back 100 feet and containing 5,000 square feet. Assessors' valuation, \$750.

29

LOT on north side of Duncan avenue, between Knowles and Camp streets, being lot No. 447 on plat 5; fronting fifty feet on Duncan avenue, extending back 100 feet, and containing 5,000 square feet. Assessors' valuation, \$750.

30

LOT on north side of Duncan avenue, between Knowles and Camp streets, being lot No. 446 on plat 5; fronting fifty feet on Duncan avenue, extending back 100 feet, and containing 5,000 square feet. Assessors' valuation, \$750.

31

LOT on north side of Duncan avenue, between Knowles and Camp streets, being lot No. 445 on plat 5; fronting fifty feet on Duncan avenue,

MISCELLANEOUS REAL ESTATE, *Continued.*

extending back 100 feet, and containing 5,000 square feet. Assessors' valuation, \$750.

Parcels No. 15 to 31, inclusive, in this schedule, are a part of the Sessions Lot, so called, purchased of Thomas Sessions and others, in May, 1805, and originally bounded westerly on North Main street and extended easterly to Camp street. The Camp street primary schoolhouse is located on a part of the original purchase. (See description of Camp street primary schoolhouse and lot, included in the second district of the school estates.)

32

Lot on southerly side of Branch avenue, near Moshassuck river, purchased for improved sewerage of Allen's Print Works, August 4, 1898, at a cost of \$1,500, being lot No. 270 on plat 74, containing 5,665 square feet. Assessors' valuation, \$340.

THIRD WARD.

33

THE DANFORTH LOT (so called), a triangular lot at the junction of Stampers and North Main streets, purchased of Thomas Danforth in January, 1812, being lot No. 201 on plat 3, and containing 1,200 square feet. Assessors' valuation, \$720.

34

Lot on east side of Charles street, near Smith street, and extending back to the Blackstone canal, being lot No. 292 on plat 3, and containing 3,325 square feet. Leased to Jesse B. Sweet at \$120 per annum, with taxes and assessments. Assessors' valuation, \$2,327.

35

LAND at the junction of Charles street and Ormsbee avenue, being lot No. 283 on plat 3, and containing 2,350 square feet. Assessors' valuation, \$1,880. This land is a part of Back street, as laid out by the Board of Aldermen, March 15, 1848, by the following resolution, as recorded in street book, No. 2, pages 67 and 68:

"*Resolved*, That the plat this day presented to the Board be and the same is hereby directed to be recorded, and that the northeasterly line of Back street be as follows: beginning on the west side of Charles street at a point 106½ feet from the corner of the Canal Bleaching Company's land, thence at right angles with Charles street, 42 feet, thence on a curve of 29½ feet radius, 30 feet, thence a straight line parallel with the railroad and 40 feet therefrom until it intersects Back street, and that all the land included in the triangular space between the railroad and Charles street and the line before described be, and the same is hereby included in Back street, provided it shall be lawful for the city to enclose for ornamental purposes any part of said triangular space not required for travel."

MISCELLANEOUS REAL ESTATE, *Continued.*

This lot, and the one next preceding in this schedule, comprise a part of what was formerly known as the Work-house lands, and includes land remaining to the town after a grant to John Smith, in 1646, of "land in the valley where his house stands, for erecting a gristmill, etc." In 1754 the boundaries of the grant were more clearly defined and platted for Elisha Brown. In 1798 Charles street was laid out over these lands, and in 1833 an exchange was made with Dexter Angell and others, the town selling them all their lands west of Back street, and receiving therefor a piece adjoining the Work-house lot on the north, between Charles street and the river. In 1847 a portion of the lot was sold to the Providence and Worcester Railroad Company for the location of their road. The town purchased of David Burt, in 1848, a small triangular piece at the northwest corner of the lot, in order to settle the north line then in dispute.

36

LOT at junction of Charles street and Mill street bridge, being lot No. 297 on plat 3, and containing 1,280 square feet. Assessors' valuation, \$984.

37

EIGHTEEN gravel lots on Silver Spring and Metcalf streets, bought of Henry J. Angell in 1866, measuring 352 feet on Metcalf street, and running back 160 feet on Grafton street to Silver Spring street, on which it measures 392 feet, being lots No. 292 to 309 inclusive, on plat 72, and containing 59,504 square feet. Assessors' valuation, \$3,134.

38

FOURTEEN lots on Hawkins, Ascham and McMillen streets, gravel land received from the Town of North Providence in 1874, measuring 213 feet on Hawkins street and 261 feet on McMillen street, being lots No. 238 to 251 inclusive on plat 71, and containing 74,944 square feet. Assessors' valuation, \$2,846.

39

THIRTEEN gravel lots on Hall street and Northup avenue; eleven lots bought of Samuel Hedly, December 15, 1873, for \$3,517.84, and two lots bought of Philip B. Stiness, April 9, 1884, for \$842.50; measuring about 530 feet on Hall street by 100 feet deep, being lots No. 30 to 42, inclusive, on plat 72, and containing 51,972 square feet. Assessors' valuation, \$1,703.

40

LOT on northwesterly corner of Orms and Black streets, deeded to the City of Providence by the Trustees of the estate of E. A. Gammell, May 26, 1899, being lot No. 104 on plat 3, containing 9,512 square feet. Assessors' valuation, \$2,378.

MISCELLANEOUS REAL ESTATE, *Continued.*

41

LOT on westerly side of Black street, near Orms street, deeded to the City of Providence by Elizabeth A. Shepard, June 12, 1899, being lot No. 121 on plat 3, containing 3,838 square feet. Assessors' valuation, \$768.

42

GRAVEL lots on Northup avenue, bought for highway purposes, December 31, 1886, of Israel B. Mason, being lots No. 481 and 482 on plat 72. Lot No. 482 measures about 197 feet on Northup avenue, and extends southerly about 255 feet on Chatham street and 180 feet on Parley street, and contains 34,829 square feet. Lot No. 481 measures about 53 feet on Northup avenue, and extends southerly about 162 feet on Parley street and 156 feet on Luna street, and contains 9,358 square feet. Assessors' valuation of both lots, \$1,419.

43

GRAVEL lot on Northup avenue, bought for highway purposes, December 30, 1887, of Andrew J. Smith and David F. Goff, and cost \$1,388.80. This lot measures about 165 feet on Chatham street, about 189 feet on Northup avenue, and about 265 feet on Flora street, being lot No. 483 on plat 72, and containing 34,816 square feet. Assessors' valuation, \$1,044.

44

LOT on Ledge and Gillen streets, east of Charles street, purchased for school purposes of Bernard McGuinness, January 4, 1894, for \$1,700. This lot measures about 108 feet on Ledge and Gillen streets, extends back about 152 feet on the west line and about 143 feet on the east line, being lot No. 152 on plat 71, and containing 16,000 square feet. Assessors' valuation, \$800.

45

TWO LOTS on Clara street, bought of Harris J. Farnum and wife, November 16, 1892, for improved sewerage purposes, and cost \$500; being lots No. 172 and 173 on plat 69, and containing 6,400 square feet. Assessors' valuation, \$192.

46

TWO LOTS on Clara street bought of Charles W. Farnum and wife, November 11, 1892, for improved sewerage purposes, and cost \$500; being lots No. 174 and 175 on plat 69, and containing 6,400 square feet. Assessors' valuation, \$192.

47

TWO LOTS on Clara street, bought of Smith S. Sweet, October 20, 1892, for improved sewerage purposes, and cost \$500; being lots No. 176 and 177 on plat 69, and containing 6,400 square feet. Assessors' valuation, \$224.

MISCELLANEOUS REAL ESTATE, *Continued.*

48

Lot on Clara street, bought of Jesse B. Sweet, October 20, 1892, for improved sewerage purposes, and cost \$250; being lot No. 178 on plat 69, and containing 3,200 square feet. Assessors' valuation, \$128.

49

Two Lots on Danforth street, bought for sewerage purposes of Patrick Walsh et al., September 8, 1897, and cost \$500; being lots No. 189 and 190 on plat 69, and containing 6,400 square feet. Assessors' valuation, \$256.

50

Two Lots on Danforth street, bought of Ellen L. Colwell, November 16, 1892, for improved sewerage purposes, and cost \$500; being lots No. 191 and 192, on plat 69, and containing 6,400 square feet. Assessors' valuation, \$192.

51

Lot on Danforth street, bought of Adah L. Steere, November 16, 1892, for improved sewerage purposes, and cost \$250; being lot No. 193 on plat 69, and containing 3,200 square feet. Assessors' valuation, \$128.

FOURTH WARD.

52

Lot on Promenade street at junction of the Woonasquatucket and Moshassuck rivers, being lot No. 35 on plat 19, containing 2,605 square feet. Assessors' valuation, \$3,908.

53

Lot at corner of Promenade street and Exchange bridge, being lot No. 36, on plat 19, containing 1,593 square feet. Assessors' valuation, \$4,779.

54

THREE-STORY BRICK BUILDING on the easterly side of Canal street, on a portion of land formerly the jail lot, and more recently the Haymarket. This building was formerly occupied by the police of the Central or first district and police courts. It is now partially occupied by the Sealer of Weights and Measures and school department. A barn and shed also upon this lot (being No. 28 on plat 10, and containing 9,642 square feet), is occupied for fire department purposes. "The Old Jail Lot," upon which these buildings stand, was, in 1753, by a vote of the town, set apart from the schoolhouse land to the colony for building a jail. The State, in 1814, purchased from Nicholas Brown a lot adjoining easterly for an addition to the jail estate. In 1839 the State sold the whole to the city. Assessors' valuation of land, \$24,105; building, \$24,000; total, \$48,105.

MISCELLANEOUS REAL ESTATE, *Continued.*

55

land with three-story brick building thereon, on easterly side of main street, being lot No. 61 on plat 10, containing 1,976 square feet, included in "Anna H. Man Trust Fund," of which this is

56

ON CANAL STREET, included in the location of the Blackstone and excluding the river bed, was formerly a highway, laid out by about 1798.

57

the northwesterly corner of Harris avenue and Kinsley avenue, measuring about 332 feet on Harris avenue, and about 394 feet on Kinsley avenue, being lot No. 21 on plat 19, and containing 35,876 square feet. Assessors' valuation, \$33,607.

58

between Kinsley avenue and Harris avenue, measuring about 180 feet on Harris avenue and about 211 feet on Kinsley avenue; being lot No. 26 on plat 26, and containing 49,431 square feet. Assessors' valuation, \$9,545.

59

regular in shape, between Exchange place and Washington street, purchased of the several railroad companies May 2, 1892, and being the site occupied by the old passenger station, being lot No. 30 on plat 19, containing 21,510 square feet. Assessors' valuation, \$129,000.

60

on east side of Francis street, bounded by Francis, Gaspee, Promenade and Stillman streets, measuring about 409 feet on Francis street, about 394 feet on Gaspee street and about 425 feet on Stillman street, being lot No. 24 on plat 19, containing 44,417 square feet. Assessors' valuation, \$66,626.

61

REGULAR LOT on west side of Francis street, bounded by Francis, Promenade and Stillman streets, measuring about 335 feet on Francis street, about 394 feet on Gaspee street and about 386 feet on Promenade street, being lot No. 25 on plat 19, containing 57,139 square feet. Assessors' valuation, \$85,658.

62

on the east side of Gaspee street, bounded on the north by the Quatucket river, on which it measures about 420 feet, on the east by Francis street, on which it measures about 70 feet, on the south by

MISCELLANEOUS REAL ESTATE, *Continued.*

Railroad street, on which it measures about 320 feet, and on the west by Gaspee street, on which it measures about 285 feet, being lot No. 26 on plat 19, containing 60,404 square feet. Assessors' valuation, \$105,707.

63

LOT on north side of Woonasquatucket river, east of Francis street, between said river and Promenade street, being a strip about 94 feet long and about 6 feet wide at the east end running to a point at the west end; being lot No. 34 on plat 19, containing 303 square feet. Assessors' valuation, \$455.

For a description of the Cove Lands, exclusive of the Cove Basin and Cove Promenade, before the exchanges were made, in 1893, with the Providence Land and Wharf Company and the New York and New England Railroad Company, See City Auditor's 53d Annual Report, page 196, year ending September 30, 1899.

64

LOT on east side of Dyer street at the foot of Peck street (supposed a continuation of said street), being lot No. 102 on plat 20, and containing 907 square feet. Assessors' valuation, \$1,814.

65

LOT on westerly side of Broad street, between Pearl street and Winter street, being lot No. 313 on plat 29, containing 11,597 square feet. Valuation included in "Anna H. Man Trust Fund" of which this is a part.

66

LOT on southerly side of Cranston street, being lot No. 236 on plat 29, containing 5,705 square feet. Valuation included in "Anna H. Man Trust Fund" of which this is a part.

67

LOT on southerly side of Cranston street, being lot No. 240 on plat 29, containing 7,397 square feet. Valuation included in "Anna H. Man Trust Fund" of which this is a part.

SIXTH WARD.

68

THE FIELD'S POINT FARM, being lot No. 256 on plat 56, and containing 1,642,142 square feet. This farm was purchased of George Field in April, 1825; John H. Clark's interest purchased in June, 1825; Chloe Field's dower purchased in May, 1833. A portion of this farm is occupied by the smallpox hospital, and a part leased to Seager S. Atwell for a term of eight years from January 1, 1897, at \$500 per annum. Assessors' valuation of land, \$16,421; buildings, \$5,000; total, \$21,421.

MISCELLANEOUS REAL ESTATE, *Continued.*

69

lot 148, plat 55, on Thurber's avenue, bought in 1869 of William Halkyard, for the purpose of opening and extending the avenue for line. Lot measures 171 feet on the avenue, and contains 171 square feet. Assessors' valuation, \$287.

70

lot 149, on Welcome avenue, between Richardson street and Logan street, purchased of John Donahue, December 22, 1880, for highway. Lot measures 50 feet by 45 feet, containing 2,250 square feet. Assessors' valuation, \$135.

71

lot 150, on north side of Logan avenue, between Prairie avenue and Ocean street, purchased of George L. Clafin, September 11, 1873, being lot No. 54, measuring 50 feet on Logan avenue, and extending back containing 6,250 square feet. Assessors' valuation, \$625.

72

lot 151, on north side of Logan avenue, between Prairie avenue and Ocean street, purchased of George L. Clafin, September 11, 1873, being lot No. 54, measuring 50 feet on Logan avenue, and extending back containing 6,250 square feet. Assessors' valuation, \$625.

73

lot 152, on north side of Logan avenue, between Prairie avenue and Ocean street, purchased of George L. Clafin, September 11, 1873, being lot No. 54, measuring 50 feet on Logan avenue, and extending back containing 6,250 square feet. Assessors' valuation, \$625.

74

lot 153, on north side of Logan avenue, near Ocean street, purchased of George L. Cole, November 8, 1873, being lot No. 685 on plat 54, measuring 125 feet on Logan avenue, and extending back 125 feet, containing 6,250 square feet. Assessors' valuation, \$625.

75

lot 154, on south side of Richardson street, near Ocean street, purchased of George L. Cole, November 8, 1873, being lot No. 718 on plat 54, measuring 125 feet on Richardson street, and extending back 125 feet, containing 6,250 square feet. Assessors' valuation, \$438.

MISCELLANEOUS REAL ESTATE, *Continued.*

76

LOT on south side of Richardson street, between Ocean street and Prairie avenue, purchased of George L. Clafin, September 11, 1873, being lot No. 719 on plat 54, measuring 50 feet on Richardson street, and extending back 125 feet, containing 6,250 square feet. Assessors' valuation, \$438.

77

LOT on south side of Richardson street, between Ocean street and Prairie avenue, purchased of George L. Clafin, September 11, 1873, being lot No. 720 on plat 54, measuring 50 feet on Richardson street, and extending back 125 feet, containing 6,250 square feet. Assessors' valuation, \$438.

78

LOT on south side of Richardson street, between Ocean street and Prairie avenue, purchased of George L. Clafin, September 11, 1873, being lot No. 721 on plat 54, measuring 50 feet on Richardson street, and extending back 125 feet, containing 6,250 square feet. Assessors' valuation, \$438.

79

LOT on north side of Richardson street, between Ocean street and Prairie avenue, purchased of Thomas P. Cole and wife, December 1, 1866, being lot No. 735 on plat 54, measuring 125 feet on Richardson street and extending back about 124 feet, containing 15,534 square feet. Assessors' valuation, \$466.

80

LOT on north side of Richardson street, between Ocean street and Prairie avenue, purchased of Thomas P. Cole and wife, October 6, 1874, being lot No. 738 on plat 54, measuring 50 feet on Richardson street, and extending back 125 feet, containing 6,250 square feet. Assessors' valuation, \$188.

81

LOT on north side of Richardson street, between Ocean street and Prairie avenue, purchased of Thomas P. Cole and wife, October 6, 1874, being lot No. 739 on plat 54, measuring 50 feet on Richardson street and extending back 125 feet, containing 6,250 square feet. Assessors' valuation, \$188.

82

LOT on north side of Richardson street, between Ocean street and Prairie avenue, purchased of John H. Livingston, January 18, 1881, being lot No. 740 on plat 54, measuring 50 feet on Richardson street and extending back 125 feet, containing 6,250 square feet. Assessors' valuation, \$188.

MISCELLANEOUS REAL ESTATE, *Continued.***83**

on north side of Richardson street, between Ocean street and avenue, purchased of James McCabe and wife, April 23, 1884, lot No. 741 on plat 54, measuring 50 feet on Richardson street, extending back 125 feet and containing 6,250 square feet. Assessors' valuation, \$250.

84

on north side of Richardson street, near Ocean street, purchased of H. Lewis, July 28, 1874, being lot No. 742 on plat 54, measuring 50 feet on Richardson street, extending back about 125 feet and containing 6,250 square feet. Assessors' valuation, \$250.

85

on north side of Richardson street, near Ocean street, purchased of Allison, December 2, 1885, being lot No. 743 on plat 54, measuring 50 feet on Richardson street, extending back about 125 feet and containing 6,250 square feet. Assessors' valuation, \$313.

86

on Richardson street, near the corner of Ocean street, purchased of Allison, December 2, 1885, being lot No. 744 on plat 54, measuring 50 feet on Richardson street, extending back about 125 feet and containing 6,250 square feet. Assessors' valuation, \$313.

87

on north side of Welcome avenue, purchased of Rufus Sprague, October 6, 1875, being lot No. 848 on plat 54, measuring 77 feet on Welcome avenue, extending back 57 feet and containing 4,389 square feet. Assessors' valuation, \$351.

88

on south side of Richardson street, between Ocean street and avenue, purchased of Ezra Hutchins, April 28, 1876, being lot No. 723 on plat 54, measuring 50 feet on Richardson street, extending back 125 feet and containing 6,250 square feet. Assessors' valuation, \$250.

89

on south side of Richardson street, between Ocean street and avenue, purchased of Elizabeth Reilly, September 10, 1875, being lot No. 723 on plat 54, measuring 50 feet on Richardson street, extending back 125 feet and containing 3,400 square feet. Assessors' valuation, \$340.

90

on south side of Richardson street, between Ocean street and avenue, purchased of Elizabeth Reilly, September 10, 1875, being lot No. 723 on plat 54, measuring 50 feet on Richardson street, extending back 125 feet and containing 3,400 square feet. Assessors' valuation, \$340.

MISCELLANEOUS REAL ESTATE, *Continued.*

lot No. 724 on plat 54, measuring 50 feet on Richardson street, extending back 68 feet and containing 3,400 square feet. Assessors' valuation, \$340.

91

Lot on south side of Pennsylvania avenue, purchased of Edwin A. Taft, November 17, 1873, being lot No. 170 on plat 53 measuring 50 feet on said avenue, extending back 90 feet and containing 4,500 square feet. Assessors' valuation, \$720.

92

WHARF LOT near Old Maid's Cove, bought of the New York, Providence and Boston Railroad Company, January 14, 1888, for \$5,115.25 for the location of a wharf for improved sewerage purposes; being lot No. 424 on plat 55, and contains 138,250 square feet. This lot is flowed by tide water, and is not valued by the Assessors.

93

ONE HUNDRED AND FIFTY-SEVEN HOUSE LOTS at Bold Water Point near Field's Point, purchased for improved sewerage purposes, as follows: Of John A. Thompson, January 12, 1888, for \$2,000; of Thomas J. Hill, February 9, 1888, for \$9,597.78; of Lizzie M., Florence B., and Alice M. Dike, May 4, 1888, for \$4,300.65; of Olive G. Temple, August 17, 1888, for \$350; and of William H. Potter, September 3, 1888, for \$10,500; together with all water rights and all streets accompanying the same; now numbered as lots No. 1, 210 and 243 on plat 56, and containing 782,202 square feet. Assessors' valuation, \$7,845.

94

TWO LOTS on west side of Eddy street, between Aldrich and Cass streets, purchased of Lorenzo D. Millard, July 31, 1890, for improved sewerage purposes, and cost \$2,950.50; being lots No. 384 and 385 on plat 54, and containing 11,760 square feet. Assessors' valuation, \$705.

95

TWO LOTS on northeast corner of Aldrich and Rugby streets, purchased of Frederick A. Fairbrother, June 22, 1889, for improved sewerage purposes, and cost \$963.73, being lots No. 451 and 452 on plat 54, and containing 10,600 square feet. Assessors' valuation, \$636.

96

LOT on south side of Aldrich street, between Rugby and Eddy streets, purchased of the heirs of Ephraim B. Moulton, June 19, 1889, for improved sewerage purposes, and cost \$500, being lot No. 443 on plat 54, and containing 5,000 square feet. Assessors' valuation, \$300.

MISCELLANEOUS REAL ESTATE, *Continued.*

97

on south side of Aldrich street, between Rugby and Eddy streets, of Samuel A. Wesson, May 17, 1889, for improved sewerage, and cost \$600, being lot No. 442 on plat 54, and containing square feet. Assessors' valuation, \$285.

98

on south side of Aldrich street, between Rugby and Eddy streets, of the West Side Company, May 18, 1889, for improved sewer-purposes, and cost \$500, being lot No. 441 on plat 54, and containing square feet. Assessors' valuation, \$270.

99

LOTS on south side of Aldrich street, between Rugby and Eddy purchased of Julia A. Edwards, June 24, 1889, for improved sewer-purposes, and cost \$1,000, being lots No. 439 and 440 on plat 54, containing 9,930 square feet. Assessors' valuation, \$497.

100

on northwest corner of Aldrich and Rugby streets, purchased of the John Mullen, October 9, 1889, for improved sewerage purposes, at \$735.81. This lot fronts 40 feet on Aldrich street and 108.74 Rugby street, being lot No. 453 on plat 54, and containing square feet. Assessors' valuation, \$368.

101

on southeast corner of Ocean street and Logan avenue, purchased by Kelly and others, February 8, 1889, for the extension of Ocean being lot No. 658 on plat 54, and containing 5,366 square feet. Assessment, \$537.

102

on the northeast corner of Ocean and Early streets, purchased of Kelly and others, February 8, 1889, for the extension of Ocean being lot No. 642 on plat 54, and containing 5,245 square feet. Assessors' valuation, \$420.

103

on southwest corner of Ocean street and Logan avenue, purchased by Kelly and others, February 8, 1889, for the extension of Ocean being lot No. 659 on plat 54, and containing 1,233 square feet. Assessment, \$185.

104

on northwest corner of Ocean and Early streets, purchased of Kelly and others, February 8, 1889, for the extension of Ocean

MISCELLANEOUS REAL ESTATE, *Continued.*

street, being lot No. 641 on plat 54, and containing 1,507 square feet. Assessors' valuation, \$151.

105

LOT on northwest corner of Ocean and Richardson streets, bought of William N. Landarkin, November 16, 1889, for gravel for highway purposes, and cost \$65. This lot is 125 feet long and about ten inches wide at the north end, and forty inches wide at the south end, and contains 259 square feet, being lot No. 745 on plat 54. Assessors' valuation, \$39.

106

TWO LOTS on south side of Byfield street, near foot of Ocean street, purchased of Elizabeth A. Gammell, October 13, 1890, for improved sewerage purposes, and cost \$2,500, being lots No. 483 and 484 on plat 54, and containing 10,000 square feet. Assessors' valuation, \$300.

107

LOT on southwest corner of Ocean and Early streets, purchased of Ames H. Hobart, January 23, 1889, for the extension of Ocean street, being lot No. 612 on plat 54, and containing 936 square feet. Assessors' valuation, \$94.

108

LOT on southeast corner of Ocean and Early streets, purchased of Ames H. Hobart, January 23, 1889, for the extension of Ocean street, being lot No. 613 on plat 54, and containing 1,805 square feet. Assessors' valuation, \$162.

SEVENTH WARD.

109

A STRIP of land about 1,640 feet long, lying on the west side of the track of the New York, New Haven and Hartford Railroad Company, south of Reservoir avenue, being lot No. 317 on plat 61, and containing 39,030 square feet. This land was bought for improved sewerage purposes and purchased as follows: Of Francis W. Miner, April 22, 1889, for \$2,000; Thomas M. Rounds, April 22, 1889, for \$613, and Francis W. Miner, May 23, 1891, for \$1,000. Assessors' valuation, \$1,171.

110

TRIANGULAR LOT on east side of Reservoir avenue at its intersection with the track of the New York, New Haven and Hartford Railroad Company, being lot No. 12 on plat 61, and containing 3,040 square feet. This lot was purchased of Joseph C. Smith and Adelaide M. Smith, January 17, 1891, for improved sewerage purposes, and cost \$364.80. Assessors' valuation, \$182.

MISCELLANEOUS REAL ESTATE. *Continued.*

NINTH WARD.

111

north side of West Exchange street, west of Arthur avenue, in the settlement for \$4,250.25, with Joseph W. Padelford, November 1887, of his appeal from the award of the Commissioners upon lot of West Exchange street, being lot No. 512 on plat 28, and containing 10 square feet. Assessors' valuation, \$5.

TENTH WARD.

112

LOT on Smith street, bought of Albert L. Andrews in December, 1887, for highway purposes, for \$1,518, being lot No. 9 on plat 122, and containing 145,804 square feet. Assessors' valuation, \$728. A part of the purchase is now located on the west side of Mount Pleasant avenue by reason of the layout of said avenue through the lot in 1888.

113

LOT on Mount Pleasant avenue, the same being a small part of street gravel lot bought of Albert L. Andrews in December, 1887, for highway purposes, and is located on the west side of the new layout of Mount Pleasant avenue by reason of the layout of said avenue through the lot in 1888, being lot No. 6 on plat 121, and contains 3,936 square feet. Assessors' valuation, \$39.

114

RIGHT on Fruit Hill, received from the Town of North Providence in 1874, measuring 58 feet on the old Powder Mill road, extending to the street 56 feet, being lot No. 10, on plat 122, and containing 3,321 square feet. Assessors' valuation, \$20. (The Auditor is advised that this is a burial lot.)

115

LOT of land 10 feet in width and about 354 feet long, running from the street southerly towards Woonasquatucket river, bought for sewer purposes from Charles Fletcher, July 5, 1901; being lot No. 10 on plat 27, and containing 3,543 square feet. Assessors' valuation, \$354.

116

EAST PROVIDENCE.

LOT on Narragansett Bay, so called, a bold, rocky ledge on the line of the New York and Bristol branch of the New York, New Haven and Hartford Railroad, north of Squantum, being about 100 feet wide, and 400 feet long, containing 31,200 square feet. Purchased of Arba B. Dike and

MISCELLANEOUS REAL ESTATE, *Continued.*

others, October 26, 1872, for highway purposes, and cost \$1,500. At low tide this island can be reached from the railroad. Assessors' valuation Town of East Providence, \$500.

117

NORFOLK, MASS.

Wood lot devised to the City of Providence, by the residuary clause of the will of Anna H. Man. Valuation included in "Anna H. Man Trust Fund" of which this is a part.

SUMMARY, MISCELLANEOUS REAL ESTATE.

DIVISIONS.	AREA, SQUARE FEET.	ASSESSORS' VALUATION.		
		LAND.	BUILDINGS.	TOTAL.
Ward 1....	136,810	\$80,721 00	\$17,000 00	\$97,721 00
Ward 2....	156,609	15,528 00	.....	15,528 00
Ward 3....	341,278	21,315 00	.....	21,315 00
Ward 4....	283,327	495,264 00	24,000 00	519,264 00
Ward 6....	2,784,108	38,234 00	5,000 00	43,234 00
Ward 7....	42,070	1,353 00	.....	1,353 00
Ward 9....	10	5 00	.....	5 00
Ward 10...	156,404	1,141 00	.....	1,141 00
East Providence	31,200	500 00	.....	500 00
Total....	3,931,816	\$654,061 00	\$46,000 00	\$700,061 00

MISCELLANEOUS PUBLIC BUILDINGS, ETC.

1

THE CITY HALL, built of Westerly and New Hampshire granite, three stories and basements, with mansard roof, and thoroughly fire-proof, is located upon land bounded by Dorrance, Washington, Eddy, and Fulton streets; lot measuring about 171 by 188 feet, being No. 38 on plat 20, and containing 32,078 square feet. The corner stone was laid on the 24th day of June, 1875, and the building dedicated on the 14th day of November, 1878. The cost of the building furnished was \$1,066,987.80.

MISCELLANEOUS PUBLIC BUILDINGS, ETC., *Continued.*

formerly belonging to the heirs of Elisha Dyer, Anson W. and Aldrich, to Thomas Brown and the heirs of Job Carpenter, passed by the city by sundry deeds dated from June 1, 1854, to 1857, some of said owners giving bonds to secure the city against their claims by their heirs and assigns. Assessors' valuation of land, \$1,120,780; building, \$800,000; total, \$1,120,780.

2

ARD AND WHARF on Henderson street, extending from Eddy to the Harbor line, being lot No. 240, plat 22, and lots No. 18, and 46, aggregating 511,904 square feet. Allen's avenue crosses this between lot 240, plat 22, and lot 498, plat 46. On this property has been built a two-story brick barn, a two-story brick workshop for the Works Department, a three-story brick building for the Public and Public Lights Department, a brick building for the Health Department used for disinfectant purposes, a two-story wood building for the Water Department, a two-story wood building for Water Department, a number of smaller wood buildings and sheds for use of the various departments. The Charity wood-yard and Poor Department are located on this property. By agreement a dock has been laid out 600 feet long and about 105 feet wide for the mutual advantage of the city and the owners on the south. Assessors' valuation of land, \$190,972; building, \$56,000; total, \$246,972.

3

STREET SEWAGE PUMPING STATION, on the north side of Eddy street, east of Allen's avenue, being lots No. 4 on plat 101 and 34 on plat 46, contains 1,342,949 square feet. On lot 4, plat 101, stand the buildings containing three Vertical Triple Expansion Sewage Engines and four Babcock and Wilcox Water Tube Steam Engines. Assessors' valuation of land, \$26,859; buildings and improvements, \$226,859; total, \$226,859.

4

NORTH BURIAL GROUND, containing 5,501,538 square feet, is situated on North Main, North Grove, and Cemetery streets, Branchfield avenues, and New York, New Haven and Hartford Railroad, being lots No. 1, 2, and 3, on plat 1, and is under the care, management and direction of the Commissioners of the North Burial Ground. The buildings thereon, belonging to the city, are occupied by the Superintendent, and others rented for the benefit of the ground. In 1700 land was set apart for a training field, burying and other public purposes by the town, which is now included in the North Burial Ground. In 1796, the town purchased about 100 acres from Moses Brown on the west side of the grounds. In 1846, the line of the ground was straightened, and a lot was purchased of Randall, on the west side of the grounds, with the privilege of laying pipes to the Moshassuck river. In 1847, a lot was purchased of

MISCELLANEOUS PUBLIC BUILDINGS, ETC., *Continued.*

Samuel Whelden, on the Smithfield Turnpike, and, in the same year, an adjoining was purchased of James Caffery. In September, 1854, a de was received from Thomas Harkness of a piece of land on the Smithfield Turnpike, and conveyed to the Monthly Meeting of Friends for a burial ground. In 1866, the city purchased of the heirs of William Randa the farm adjoining on the north, containing about forty acres; also a strip on the east, of John Carter Brown, carrying the boundary line to the Pawtucket turnpike. In 1870, the city purchased of William Corl a lot of land adjoining on the northwest, containing about twenty acres with the buildings and improvements thereon. In 1876, a lot of land with a dwelling house, situated on North Main street, was purchased of Al Gannon; also a lot of land situated on Sexton street, of Nathaniel Mowry. October 15, 1891, the city purchased of Mary Miller, of Philadelphia, widow of Barton Miller, land on North Grove street and Moshasuck river, with buildings and improvements, for the sum of \$9,000 under authority of chapter CCLXXXVI. of the ordinances, approved December 1, 1890. In 1883, a one-story stone building was erected near the main entrance for office purposes, at a cost of \$3,000. In 1893-4 a pavilion was erected at the north end of Ridge Side Lake, at an expense of \$963.46. In 1898 a greenhouse was erected, near the main entrance, which cost about \$2,100. Assessors' valuation of land, \$501,316; buildings, \$15,000; total, \$516,316.

5

WASHINGTON BRIDGE ESTATE. This estate was conveyed to the city by the Providence Washington Bridge Company in November, 1860, in accordance with an act of the General Assembly, passed at the January session, A. D. 1859.

It now comprises land on the east side of the Seekonk river, being the westerly approach or causeway leading to the old Washington bridge, the balance of the original estate having been sold.

6

LOT at the junction of Beacon avenue, Pine and Friendship streets being No. 215 on plat 24, and containing 3,120 square feet. This lot was deeded to the Town of Providence by Daniel and Benjamin Field in July, 1814, to be added to and form a part of the street forever. Assessors' valuation, \$3,120.

SUMMARY.

AREA, SQUARE FEET.	ASSESSORS' VALUATION.		
	Land.	Buildings.	Total.
7,391,589	\$1,043,047 00	\$1,071,000 00	\$2,114,047 00

PARKS AND SQUARES.

1

SEER WILLIAMS SQUARE, bounded by Power, Roger, Gano and Wil- streets, being lot No. 295 on plat 17, containing 40,000 square and dedicated as and for a public park by the heirs of Governor Fenner. This square was dedicated for public park purposes and under authority of City Council resolution No. 397, approved June 1893. Under authority of City Council resolution No. 244, approved June 16, 1878, a portion of slate rock was raised to grade and enclosed by iron fence at an expense of \$491.08. Assessors' valuation, \$6,000. Addition says that "Williams and his associates first landed on 'Rock,' on the banks of the Seekonk river, near the residence of his uncle Governor Fenner, and that as they approached the shore they were saluted with 'What cheer, netop,' by an Indian from the hill." That is some foundation for the tradition appears from the fact that a portion of land adjoining this rock has ever since borne the name of "What Cheer." Under this name it was assigned to Mr. Williams in the division of land among the settlers. It has also been handed down in tradition that Mr. Williams and his companions, after exchanging relations with the Indians, pursued their voyage around Fox Point and Providence river to a point a little south of St. John's Church. "Annals of Providence," page 21.

2

TOCKWOTTON PARK. This park is located within the square bounded by Wickenden, East, Tockwotton and Ives streets, being lots Nos. 2 and 9 on plat 17, and containing 215,784 square feet. This park occupies the site of the "Reform School Estate," formerly Tockwotton hotel estate," and was a part of the Brook Street Dis- tance with City Council resolution No. 372, approved August 8, 1888, under authority granted by Chapter 680 of the Public Laws, passed March 23, 1888; a portion, containing 5,301 square feet, located at the corner of Wickenden and East streets, belonging to Daniel Gorman, was condemned for park purposes, in accordance with City Council resolution No. 526, approved September 8, 1890, with authority Chapter 876 of the Public Laws, passed March 11, 1890, and the same in accordance with City Council resolution No. 157, approved May 7, 1903. The sum of \$9,439.70 was paid to Daniel Gorman, May 1891, on an execution from the Supreme Court, for his land and dwelling house located thereon. The dwelling house was sold by the City on July 2, 1891, for the sum of \$2,600. The sum of \$5,000 was expended in 1889 and 1890 for the construction of this park. The portion located in this park was built in 1893 and cost \$1,050. Assessors' valuation of land, \$49,144; building, \$800; total, \$49,944.

3

WASHINGTON SQUARE, between Benefit, Tockwotton and Traverse streets, and the New York, New Haven and Hartford railroad, measuring

PARKS AND SQUARES, *Continued.*

about 261 feet on Benefit street by 150 on Tockwotton street, being lot No. 135 on plat 18, and containing 39,052 square feet. This square was laid out on the plat of the Fox Point Association land as a public square in 1816, to be kept open forever as a public square, according to the terms of the deed from Fox Point Association. A deed of the proprietor's interest in said square, in common with other owners, was received from Thomas Thompson in April, 1830. A part of the original lot was condemned in 1884, for a new location for the tracks of the Providence, Warren and Bristol railroad. Assessors' valuation, \$13,668.

4

FENNER PARK, at the junction of Governor and Williams streets, being lot No. 234 on plat 17, and containing 1,752 square feet. This parcel of land was taken for park purposes under authority of Chapter 998 of the Public Laws, passed May 29, 1891, and City Council resolution No. 732, approved November 20, 1891. Dedicated for public park purposes and named under authority of City Council resolution No. 279, approved May 18, 1894. A description of this park is recorded in the office of the Recorder of Deeds, in book for deeds, No. 338, at page 354. Assessors' valuation, \$613.

5

BLACKSTONE PARK, situated on Blackstone boulevard, Paterson street, Rhode Island avenue, Angell street, Loring and Gulf avenues, and Seekonk river. Part of this land was presented to the city for a public park by William P. Vaughan and Moses B. Jenkins in 1863, the remainder has been acquired by purchase, being lots 14 to 19 inclusive, 39 to 60 inclusive, 62 to 81 inclusive, 123 to 133 inclusive, 135, 136, 138 to 141 inclusive, 145 to 148 inclusive, 150 to 152 inclusive, 134 to 174 inclusive, 234 to 238 inclusive, 240 to 242 inclusive, 247 and 252 on plat 41, and 293 to 297 inclusive, on plat 40, and containing 1,679,655 square feet. Assessors' valuation of land, \$75,767.

6

BLACKSTONE BOULEVARD PARKWAY, the centre strip of Blackstone Boulevard, one hundred feet wide, from Elton street to the city line, excepting street crossings, dedicated for public park purposes by City Council resolutions No. 388, approved July 3, 1894, and 533, approved December 31, 1897, containing about 845,500 square feet. This parkway is not platted or valued by the assessors.

7

PROSPECT TERRACE, on Congdon, opposite Cushing street, being lot No. 215 on plat 10, and containing about 12,033 square feet. This lot was purchased by the citizens of the second ward, and presented to the city in 1869, to be kept open as a public park. A handsome fountain, the gift of George R. Phillips, Esq., was placed on this park in 1877. The retaining wall was rebuilt in 1888-1889 at an expense of \$11,676.47. Assessors' valuation, \$6,016.

PARKS AND SQUARES, *Continued.*

8

ADMIRAL HOPKINS PARK," so named under authority of Chapter XXII, of the Ordinances, approved February 12, 1892, is situated between Branch avenue, Charles and Hawkins streets, formerly known as Hopkins Burial Ground, was taken by the City of Providence for the purpose of a public park, pursuant to the provisions of Chapter 946 of the Public Laws, passed by the General Assembly, March 24, 1891, and City Council resolution No. 421, approved July 7, 1891. A description of this land, signed by the Mayor, is recorded in the office of the Recorder of Deeds, in book No. 366, at page 412.

A statue of Admiral Hopkins has been placed in this park through the generosity of Harriet N. H. Coggeshall, of Providence, who died March 31, 1891, leaving a will, the fourth clause of which provided that "The Silver Spring Bleachery property on Charles street in Providence, I give as follows: The income therefrom for the first five years after my decease to be to my executors for the purpose of erecting a suitable monument to my great-grandfather, Admiral Hopkins, on the lot where he lies buried. . . ."

This land was received from the Town of North Providence in 1874, being lot No. 139 on plat 71, and containing 48,500 square feet. Assessors' valuation, \$6,317.

9

BRADSTREET SQUARE, on Federal Hill, situated at the corner of Bradstreet and Atwell's avenue, measuring 150 feet on Atwell's avenue, 152 feet on Bradford street, being lot No. 66 on plat 26, and containing 4,500 square feet. This lot was conveyed to the Town of Providence in 1808 by Amos M. Atwell and others, to be occupied and improved for any public purpose or purposes, and for no other use or purpose whatever." Assessors' valuation, \$11,457.

10

THE ABBOTT PARK, located on Weybosset, near Chestnut street, being lot No. 481 on plat 24, and containing 7,800 square feet, was conveyed to Daniel Abbott in 1746, to a committee of the Beneficent Congregational Society, "for public use, passing and repassing, training, and the like, and always to be kept free from any building forever, or any other encumbrance, to the prejudice of the public forever." A large and beautiful fountain was located upon the centre of this lot in 1873. This fountain, being first established for the benefit of the public, was presented by William Charnley and others, and accepted by the city June 14, 1875, and has since been in charge of the joint committee on parks. Assessors' valuation and, \$35,100.

11

THE TRIANGULAR PARK, known as Hospital Park, at the junction of Eddy and Eddy streets, being lot No. 208 on plat 22, and containing 9,000 square feet. Assessors' valuation, \$896.

PARKS AND SQUARES, *Continued.*

12

THE TRIANGULAR PARK, at the junction of Bassett, Elm and Hoppin streets, being lot No. 64 on plat 21, and containing 1,370 square feet. This park is located in "Hoppin Square," so named by the Board of Aldermen, June 4, 1891. Assessors' valuation, \$822.

13

HAYWARD PARK, situated between Friendship, Maple and Plain streets and Beacon avenue, formerly the proprietors' burial ground. A part of this park was taken by the City of Providence for the purpose of a public park, pursuant to the provisions of Chapter 431 of the Public Laws, passed May 2, A. D. 1884, and City Council resolution No. 236, approved June 2, 1884. The awards made by the Supreme Court for the lands taken for this park amounted to \$1,199.46, and were paid in 1887. A description of the condemned land, signed by the Mayor, is recorded in the office of the Recorder of Deeds, in book 327, page 339. September 28, 1892, under authority of City Council resolution No. 436, approved July 12, 1892, 26,682 feet of land fronting on Maple street were purchased of Beriah Wall and Thomas Boyd, Jr., for the sum of \$22,000. This tract of land was added to and made a part of the park under authority of City Council resolution No. 639, approved October 8, 1892. The large and beautiful fountain located upon the centre of this park was the gift of Ex-Mayor William S. Hayward, in whose honor the park was named, and was accepted by the city September 11, 1889. This park was established under the authority of Chapter CXLVIII. of the ordinances approved December 26, 1888, being lot No. 1 on plat 21, and containing 115,349 square feet. In 1888-1889 the sum of \$293.95 was expended for the removal of bodies to the North Burial Ground, and \$97.80 for the expense of erecting a monument at the North Burial Ground. The amount expended in 1889-90 for the construction of this park was \$6,244.20. Assessors' valuation of land, \$57,675.

14

COLUMBUS PARK, at junction of Elmwood and Reservoir avenues, measuring 200 feet on Elmwood avenue, 227 feet on Reservoir avenue and 109 feet on Atlantic avenue, being lot No. 20 on plat 52, and containing 9,123 square feet. This lot was deeded to the Town of Cranston for a public park by Joseph J. Cooke, May 24, 1864, and was received from the Town of Cranston in 1868. This park was named and dedicated for public park purposes under authority of City Council resolution No. 509, approved September 12, 1893. The bronze statue of Columbus located in this park, a gift from citizens, was cast by the Gorham Manufacturing Company, from designs made by Auguste Bartholdi, and was presented to the city with appropriate ceremonies November 8, 1893. Assessors' valuation of land, \$4,105.

PARKS AND SQUARES, *Continued.*

15

ROGER WILLIAMS PARK. This park contains about 18,596,025 square feet, or 426.90 acres, being lot No. 1 on plat 90. About 4,431,014 square feet, or 101.2 acres, on which is the old red house, now called the Betsey Williams house, which was built by Nathaniel Williams about the year 1773, and which was owned by James, father of Betsey, were devised to the City of Providence by the will of Betsey Williams, who died in November, 1871; the remainder was acquired by purchase and condemnation, excepting about 1,000 square feet, conveyed as a gift to the city by John M. and Susan P. Williams, December 19, 1880. A monument after plans by Franklin D. Williams, of Rome, Italy, consisting of a bronze statue of Roger Williams on a granite base, was erected in this park in 1876-77 by the City of Providence at a cost of about \$22,000. A barn and deer park were condemned in 1890-91, near the northerly line of the park, at a cost of about \$13; a menagerie building was erected in 1890-91 at a cost of about \$10; a museum building was erected in 1894-5 at a cost of \$40,528.40; a boat-house was completed in 1897-98, at a cost of \$29,989.97; and a boat-dock and wharf completed in 1897, at a cost of \$19,530. Assessment of land, \$743,841; buildings, \$102,000; total, \$845,841. The park also contains a lot at outlet of Mashapaug pond, west of Reservoir, bought of Daniel Perrin *et al.*, January 3, 1896, to control the flow of water flowing into the lakes at Roger Williams Park, being lot 311 on plat 61, containing 34,097 square feet. Assessors' valuation, \$11.

16

ALSTON SQUARE. included between Alston and Bryant streets and between River and Main avenues, was deeded to the city by the West Providence Association, for park purposes only. The deed for this square was recorded December 16, 1889, in the office of the Recorder of Deeds, in book No. 350, at \$1,000, but has never been accepted by the City Council. This square contains 138,950 square feet, being lot No. 187 on plat 65. Assessors' valuation, \$3,895.

17

DAVID PARK. This park, named under authority of chapter CCCLXXI. of the city ordinances approved February 12, 1892, lies between Chalk-street and Valley street, with Raymond street as its eastern limit, and contains 1,681,593 square feet, or 38.6 acres. About 34 acres were purchased of Thomas Davis, May 27, 1891, at a sum of \$75,000, under authority of chapter 873, Public Laws of the State of Rhode Island, passed April 25, 1890, and chapter CCLVI. of the city ordinances approved July 2, 1890. The remainder was acquired by purchase in 1897 at a cost of \$34,000. Assessors' valuation of land, \$50,448; buildings, \$20,000; total, \$70,448.

18

HALL PARK, located between Washington street extension, Exchange street extension, Dorrance street and the New York, New Haven

PARKS AND SQUARES, *Continued.*

and Hartford Railroad Station, being lots No. 7, 13, 31 and 32 on plain 19, containing 111,879 square feet. Part of this park was formerly within the cove basin, a part included in the cove promenade, and the remainder was purchased of the Old Colony and other railroad companies by deed dated May 2, 1892, and deed from the New York and New England Railroad Company in 1893. Assessors' valuation, \$462,418.

19

NEUTACONKANUT HILL PARK, located on Plainfield and Killingly streets and Sunset avenue, was purchased of Phebe W. Smith, October 14, 1903, for \$32,500. It contains 31.155 acres. A right of way from Sunset avenue to this tract was conveyed by Abram L. Atwood for a nominal sum, October 14, 1903. This land was dedicated for public park purposes by City Council resolution No. 374, approved November 6th 1903. Assessors' valuation not adjusted.

SUMMARY OF PARKS.

AREA, SQUARE FEET.	ASSESSORS' VALUATION.		
	Land.	Buildings and Improvements.	Total.
23,502,586	\$1,528,693 00	\$122,800 00	\$1,651,493 00

NAME OF SCHOOL.	Assessors' Lots		Area of Lot square feet	Cost.		Assessors' Valuation.			REMARKS.
	Plat No.	Lot No.		Land.	Buildings.	Land.	Buildings.	Total.	
Thayer St. Grammar....	12	435	24,566	\$11,920 00	\$96,290 83	\$12,283 00	\$40,000 00	\$52,283 00	Brick building, 3 stories and French roof, built in 1866-7.
Arnold St. Primary.....	16	312	17,568	.....	.....	6,149 00	25,000 00	31,149 00	Brick building, 3 stories, built in 1893-4; altered and improved in 1893-4 at an expense of \$25,568.38.
East St. Primary.....	17	176	9,666	.....	.....	2,899 00	7,500 00	10,399 00	Wood building, 3 stories, built in 1841.
East Manning St. Pri'y.	14	20	10,000	.....	.....	2,800 00	13,000 00	15,800 00	Wood building, 2 stories, built in 1875-6; altered and improved in 1893-4 at an expense of \$10,234.16.
Ives St. Primary.....	14	386	13,294	3,750 00	20,256 13	3,722 00	15,000 00	18,722 00	Brick building, 4 rooms, completed in 1899.
Thayer St. Primary.....	10	302	12,308	.....	.....	4,677 00	6,000 00	10,677 00	Wood building, 2 stories, built in 1896.
SECOND WARD.									
Hope St. High.....	11	52	49,300	\$19,720 00	\$189,499 81	\$17,255 00	\$160,000 00	177,255 00	Brick building, 2 stories and basement, containing 34 school-rooms, 2 halls, library, offices, teachers' rooms, lunch rooms, bicycle rooms, etc.; completed in 1898.

PUBLIC SCHOOL ESTATES.—SECOND WARD.—(Continued.)

NAME OF SCHOOL.	ASSESSORS' PLAT No.		Area of Lot square feet	Cost.		ASSESSORS' VALUATION.			REMARKS.
	Plat No.	Lot No.		Land.	Buildings.	Land.	Buildings.	Total.	
Doyle Ave. Grammar...	8	77	10,047	.....	.....	\$1,507 00	\$65,000 00	\$66,507 00	Brick building, 3 stories, built in 1875-76 upon land leased of the Dexter Donation, viz.: lot 225, containing 23,567 sq. ft., plat 8. A six-room addition was built in 1893-94 at a cost of \$34,915.20. Lot 77 is in addition to land leased.
Benefit St. Primary.....	9	168	23,420	.....	.....	14,052 00	32,000 00	46,052 00	Brick building, 3 stories, built in 1839-40; reconstructed in 1893-94 at an expense of \$27,983.83. A portion of this estate has been used for school purposes since 1768, see City Auditor's report for 1885, page 254.
Camp St. Primary.....	5	192	17,186	.....	\$13,107 95	4,237 00	8,600 00	12,807 00	Wood building, 2 stories, built in 1884-85.
Charles St. Primary....	2	64	26,960	\$9,000 00	49,355 27	8,088 00	42,000 00	50,088 00	Brick building, 8 rooms, built in 1891-2.
Graham St. Primary....	5	130	12,029	.....	.....	1,083 00	8,000 00	9,083 00	Brick building, 2 stories.
Highland Ave. Primary.	91	225	15,000	1,500 00	13,240 55	600 00	10,000 00	10,600 00	Wood building, 4 rooms, built in 1890.
Montague St. Primary..	8	155	20,656	7,232 16	25,526 90	6,197 00	18,000 00	24,197 00	Brick building, 6 rooms, built in 1897-8.
Slate Ave. Primary....	39	179	15,000	2,500 00	13,072 85	1,800 00	10,000 00	11,800 00	Wood building, 4 rooms, built in 1890.

Branch Ave. Grammar...	72	426	24,489	\$4,897 80	\$46,314 44	\$2,839 00	\$40,000 00	\$42,939 00	Brick building, 8 rooms, built in 1891-2.
Candace St. Grammar...	68	597	25,973	.....	70,933 81	8,311 00	60,000 00	68,311 00	Brick building; old part built in 1876, addition built in 1891-3.
Admiral St. Primary...	70	580	12,100	.....	4,578 84	484 00	3,200 00	3,684 00	Wood building, erected in 1876.
Berkshire St. Primary...	70	845	24,000	1,500 00	.....	2,160 00	25,000 00	27,160 00	Brick building, 6 rooms, completed in 1901.
Branch Ave. Primary...	71	298	25,730	.....	.....	3,859 00	3,500 00	7,359 00	Wood building, received from the Town of North Providence in 1874. "Town House" erected by North Providence on an adjoining lot, was moved to this lot in 1889 and fitted for primary school purposes.
Chalkstone Ave. Pri- mary	68	741	15,318	.....	.....	3,830 00	27,000 00	30,850 00	Brick building, 8 rooms, completed in 1903.
Greeley St. Primary...	71	47	19,290	2,250 00	26,174 65	1,536 00	32,000 00	33,536 00	Brick building, 8 rooms, 4 rooms built in 1895-96 and 4 added in 1902.
Ruggles St. Primary...	69	36	14,733	3,800 00	21,789 67	1,473 00	22,000 00	23,473 00	Brick building, 4 rooms, completed in 1896.
State St. Primary.....	3	347	10,885	.....	12,890 89	3,048 00	10,000 00	13,048 00	Wood building, 4 rooms, built in 1893-94.
Veazie St. Primary.....	102	170	19,608	1,500 00	20,927 56	784 00	15,000 00	15,784 00	Wood building, 6 rooms, built in 1898.

FOURTH WARD.

English High School...	29	259	38,905	\$58,974 63	\$159,838 22	\$25,288 00	\$86,300 00	\$111,588 00	Brick building, 3 stories, erected in 1877-8. Accommodates 900 pupils.
Classical High.....	24	17	32,188	88,692 34	205,272 84	20,922 00	175,000 00	195,922 00	Brick building, 3 stories and basement, containing 38 school rooms, 2 halls, library, offices, teachers' rooms, supply rooms, lunch rooms, bicycle rooms, etc.; completed in 1897.

PUBLIC SCHOOL ESTATES.—FOURTH WARD.—(Continued.)

NAME OF SCHOOL.	ASSESSORS' PLAT No.		Area of Lot square feet	COST.		ASSESSORS' VALUATION.			REMARKS.
	Lot. No.	Plat No.		Land.	Buildings.	Land.	Buildings.	Total.	
Manual Training High..	24	300	25,754	\$59,560 15	\$116,512 51	\$20,003 00	\$90,000 00	\$110,003 00	Brick building, 3 stories and basement, containing 27 rooms, a hall, store, apparatus rooms, etc.; completed in 1893-94.
Beacon Avenue.....	24	313	5,800	.....	.....	3,480 00	2,000 00	5,480 00	Wood building, 2 stories occupied for kindergarten and cooking schools.
Bourn Street Primary..	26	39	14,760	.....	.....	8,856 00	10,000 00	18,856 00	Wood building, 4 rooms, being the old Sabin street primary school building removed to this location and reconstructed. The German School Society occupies one room at a yearly rental of \$25.
Elm Street Primary....	21	96	14,647	.....	.....	8,055 00	20,000 00	28,055 00	Brick building, 2 stories, built in 1839-40. Reconstructed in 1883-84 at an expense of \$17,360.72.
Meeting Street.....	10	75	7,454	.....	.....	7,454 00	1,500 00	8,954 00	Brick building, 2 stories. Land conveyed to the town in 1776 for the erection of a school house, and for no other purpose.
Smith Street Primary..	67	44	28,825	.....	32,000 00	5,189 00	23,000 00	28,189 00	Brick Building, 2 stories, 6 rooms, built in 1894-95.
Summer Street Primary	29	258	12,196	.....	30,000 00	9,147 00	20,000 00	29,147 00	Brick building, erected in 1875.

Peace Street Grammar.	44	245	22,019	\$3,000 00	\$62,680 72	\$7,917 00	\$50,000 00	\$57,917 00	Brick building, built in 1888-9.
Point Street Grammar.	22	1	43,325	70,495 81	133,804 38	13,864 00	60,000 00	73,864 00	Brick building, 2 stories and French roof, built in 1873-4.
Beacon Ave. Primary...	23	586	15,460	8,749 70	29,099 98	5,411 00	25,000 00	30,411 00	Brick building, 6 rooms, built in 1891-2.
Chester Ave. Primary..	45	469	10,995	.....	9,343 26	2,199 00	7,000 00	9,199 00	Wood building, built in 1880-1.
Friendship St. Primary.	23	161	15,200	.....	.....	6,840 00	16,000 00	22,840 00	Brick building, 2 stories. Reconstructed in 1883-4, at an expense of \$16,517.83.
Public Street Primary..	45	424	16,096	.....	.....	3,863 00	4,000 00	7,863 00	Wood building, 2 stories.
Somerset St. Primary...	23	523	14,819	5,186 65	14,007 04	5,187 00	12,000 00	17,187 00	Wood building, 2 stories, built in 1886.
Willard Ave. Primary..	45	169	10,237	2,303 22	14,283 13	1,638 00	10,000 00	11,638 00	Wood building, built in 1894-5.
Hospital Street Special.	22	200	5,753	.....	.....	1,898 00	8,000 00	9,898 00	Brick building, 3 stories.

SIXTH WARD.

Broad Street Grammar.	58	458	36,970	\$9,931 66	\$93,185 98	\$10,072 00	\$75,000 00	\$85,072 00	Brick building, 3 stories and basement, containing 17 schoolrooms, a hall, office, teachers' rooms, lunch rooms, store rooms, etc., completed in 1897.
Oxford Street Grammar	48	82	23,760	.....	48,158 20	4,277 00	38,000 00	42,277 00	Brick building, 3 stories, built in 1876-7.
Aldrich Street Special..	54	435	13,300	.....	4,814 78	931 00	3,200 00	4,131 00	Wood building, built in 1876.
California Ave. Primary	87	186	19,300	.....	13,865 35	1,920 00	10,000 00	11,920 00	Wood building, built in 1894-95.
Eddy Street Primary....	47	763	12,629	.....	13,515 51	3,132 00	10,000 00	13,132 00	Wood building, 4 rooms, completed in 1893-4.

PUBLIC SCHOOL ESTATES—SIXTH WARD.—Continued.

NAME.	ASSES- SORS'		Area of Lot square feet	COST.		ASSESSORS' VALUATION.			REMARKS.
	Plat No.	Lot No.		Land.	Buildings.	Land.	Buildings.	Total.	
Elmwood Ave. Primary.	40	364	25,281	.....	.....	\$12,640 00	\$15,000 00	\$27,640 00	Wood building, 2 stories, reconstructed in 1893-4 at a cost of \$15,408.87.
Harriet Street Primary.	48	568	12,800	\$3,840 00	\$12,289 69	2,304 00	8,400 00	10,704 00	Wood building, built in 1884-5.
Niagara Street Primary	52	182	15,000	3,750 00	12,802 27	3,600 00	10,000 00	13,600 00	Wood building, 4 rooms, completed in 1883-4.
Plain Street Primary...	48	176	12,800	4,000 00	12,400 60	2,560 00	8,400 00	10,960 00	Wood building, built in 1884-5.
Roger Williams Avenue Primary.....	88	120	19,000	.....	14,452 80	2,660 00	10,000 00	12,660 00	Wood building, 4 rooms, built in 1894-5.
Thurber's Ave. Primary	54	297	34,434	.....	.....	7,575 00	15,000 00	22,575 00	Brick building, 2 stories, built in 1872-3.
SEVENTH WARD.									
Messer Street Grammar	36	181	19,841	\$6,837 93	\$68,195 71	\$4,960 00	\$55,000 00	\$59,960 00	Brick building, 12 rooms, completed in 1893.
Vineyard St. Grammar.	49	344	27,600	8,444 00	51,128 63	4,968 00	40,000 00	44,968 00	Brick building, 2 stories and hall, built in 1882-3.
Bellevue Ave. Primary.	31	309	12,123	.....	12,808 98	2,427 00	10,000 00	12,427 00	Wood building, 2 stories, built in 1886.
Cathoon Ave. Primary..	50	440	19,200	.....	17,500 00	2,112 00	11,000 00	13,112 00	Brick building, 2 stories, built in 1874.

Hammond St. Primary.	32	253					\$10,000 00	\$10,000 00	Brick building, 3 stories, built on land leased of the Dexter Donation.
Potter Ave. Primary....	43	510	25,289			\$5,564 00	35,000 00	40,564 00	Brick building, 2 stories, built in 1899. A four-room addition constructed in 1895-6 cost \$29,989.08.
Warren Street Primary.	30	369	15,200			4,864 00	7,000 00	11,864 00	Wood building, 2 stories.

EIGHTH WARD.

Roosevelt St. Grammar.	108	350	30,000	.....	.....	.....	3,000 00	\$32,000 00	\$35,000 00	Brick building, 8 rooms, annexed from Johnston in 1898.
Althea Street Primary..	42	79	18,637	\$4,022 26	\$22,656 20	.....	3,151 00	22,000 00	25,151 00	Brick building, 4 rooms, completed in 1896.
Chattlet Street Primary.	113	227	18,000	.....	.....	.....	540 00	10,000 00	10,540 00	Wood building, 4 rooms, annexed from Johnston in 1898.
Daniel Ave. Primary...	112	237	19,200	.....	.....	.....	1,536 00	10,000 00	11,536 00	Wood building, 4 rooms, annexed from Johnston in 1898.
Kelly Street Primary...	105	299	22,325	.....	.....	.....	2,679 00	15,000 00	17,679 00	Wood building, 6 rooms, annexed from Johnston in 1898.
Killingly St. Primary...	112	256	23,629	.....	.....	.....	2,588 00	20,000 00	22,588 00	Brick building, 4 rooms, annexed from Johnston in 1898.
Ralph Street Primary...	108	161	20,000	.....	.....	.....	2,400 00	27,000 00	29,400 00	Brick building, 8 rooms, completed in 1902.
Webster Ave. Primary..	104	363	16,000	2,400 00	.....	.....	1,760 00	20,000 00	21,760 00	Brick building, 6 rooms and hall, completed in 1901.
Willow Street Primary.	35	170	18,323	.....	35,000 00	.....	5,497 00	18,000 00	23,497 00	Brick building, 2 stories, built in 1874.

PUBLIC SCHOOL ESTATES—NINTH WARD.

NAME OF SCHOOL.	ASSESSORS.		Area of Lot square feet	COST.		ASSESSORS' VALUATION.			REMARKS.
	Plat No.	Lot No.		Land.	Buildings.	Land.	Buildings.	Total.	
Bridgham Grammar....	32	335	27,216	.....	.....	\$10,886 00	\$35,000 00	\$45,886 00	Brick building, 4 stories, containing 14 rooms and a hall.
{ Federal St. Grammar.	28	310	36,014	.....	\$96,137 02 }	13,325 00	65,000 00	78,325 00	Grammar building, built of brick, 4 stories, in 1869-70. Primary building built of wood in 1894-5.
{ Federal St. Primary..	28	310	.....	.....	12,903 84 }	.....	.....	.....	.....
Africa Street Primary..	28	804	11,307	.....	9,540 65	3,392 00	8,000 00	11,392 00	Wood building, built in 1880-1.
Almy Street Primary...	32	104	16,696	\$11,269 80	13,274 88	8,348 00	10,000 00	18,348 00	Wood building, 4 rooms, completed in 1893-4.
Atwells Ave. Primary..	28	359	15,276	15,000 00	25,539 47	6,569 00	20,000 00	26,569 00	Brick building, 2 stories, 6 rooms, built in 1887-8.
Carpenter St. Primary..	28	30	15,203	.....	12,191 94	8,362 00	10,000 00	18,362 00	Wood building, 4 rooms, completed in 1893-4.
Courtland St. Primary..	33	138	19,730	9,865 20	25,514 51	3,354 00	22,000 00	25,354 00	Brick building, 4 rooms, completed in 1896.
Grove Street Primary..	33	286	16,000	11,500 00	.....	5,600 00	22,000 00	27,600 00	Brick building, 6 rooms, completed in 1901.
Harris Ave. Primary...	33	282	20,230	.....	13,839 71	2,428 00	10,000 00	12,428 00	Wood building, 4 rooms, completed in 1893-4.

Ring Street Primary....	33	35	12,000	.....	3,000 00	10,000 00	19,000 00	Brick building, 2 stories. Reconstructed in 1893-4 at an expense of \$16,504.06.	of the Dexter Donation, completed in 1896.
TENTH WARD.									
Academy Avenue (Grammar.....)	64	519	32,765	\$6,000 00	\$68,700 81	\$5,838 00	\$55,000 00	\$60,838 00	Brick building, 12 rooms, built in 1890.
Manton Ave. (Grammar.....)	80	14	22,545	.....	31,186 52	2,255 00	25,000 00	27,255 00	Brick building, 6 rooms, completed in 1899.
Amherst St. Primary.....	63	60	13,631	.....	9,265 48	2,999 00	7,000 00	9,999 00	Wood building, 2 stories, built in 1890.
Berlin St. Primary.....	65	379	14,553	2,002 33	10,700 00	1,746 00	8,000 00	9,746 00	Wood building, 2 stories, built in 1883.
Covell St. Primary.....	63	142	16,203	.....	14,908 73	3,565 00	12,000 00	15,565 00	Wood building, 2 stories, built in 1886.
Hendrick St. Primary..	64	434	15,486	3,409 12	27,660 48	1,860 00	22,000 00	23,860 00	Brick building, 4 rooms, completed in 1896.
Julian St. Primary.....	62	371	10,871	.....	11,003 95	2,718 00	18,000 00	20,718 00	Wood building, 2 stories, built in 1875. Reconstructed in 1893-4 at a cost of \$14,967.91.
Mt. Pleasant Ave. Primary.....	64	1	18,223	4,305 00	25,558 19	2,005 00	18,000 00	20,005 00	Brick building, 6 rooms, completed in 1896.
Putnam St. Primary....	62	57	26,296	.....	.....	5,785 00	8,000 00	13,785 00	Brick building, 2 stories, received from North Providence in 1874.
River Ave. Primary....	66	106	21,000	2,520 00	13,236 07	1,890 00	10,500 00	12,390 00	Wood building, 4 rooms, built in 1891-2.
Sisson St. Primary.....	95	62	16,009	4,000 00	13,227 91	2,561 00	10,000 00	12,561 00	Wood building, 4 rooms, built in 1893-4.
Academy Avenue.....	64	656	16,250	5,000 00	.....	3,275 00	.....	3,275 00	.....

SUMMARY, PUBLIC SCHOOL ESTATES.

WARDS.	AREA, SQUARE FEET.	ASSESSORS' VALUATION.		
		LAND.	BUILDINGS.	TOTAL.
First.....	87,402	\$32,530 00	\$106,503 00	\$139,033 00
Second	189,598	54,879 00	353,600 00	408,479 00
Third.....	192,036	28,424 00	237,700 00	266,124 00
Fourth.....	180,529	108,994 00	427,800 00	536,794 00
Fifth.....	154,504	48,817 00	192,000 00	240,817 00
Sixth.....	224,074	51,671 00	203,000 00	254,671 00
Seventh ...	119,263	24,895 00	168,000 00	192,895 00
Eighth.....	185,914	23,151 00	174,000 00	197,151 00
Ninth.....	189,672	65,864 00	228,000 00	293,864 00
Tenth	223,842	36,557 00	193,500 00	230,057 00
Totals ...	1,746,834	\$475,782 00	\$2,284,100 00	\$2,759,882 00

COMPANY.	LOCATION.	Assessors' Lot No.	Assessors' Plat No.	Area, square feet	Assessors' VALUATION.			REMARKS.
					Land.	Buildings.	Total.	
Central Fire Station..... Fire Department Offices No. 1. Hose..... Hook and Ladder No. 1. Water Tower.....	Exchange st. extens'n	19	33	21,606	\$78,487 00	\$146,000 00	\$223,487 00	Brick building, three stories, completed in 1902-1903.
		16	32	5,617	4,494 00	13,000 00	17,494 00	Brick building, built in 1891-2, and cost \$15,005.58.
No. 2. Engine.....	South Main street....	24	156	5,689	3,353 00	9,000 00	12,353 00	Brick building, built in 1874-6, and cost \$6,500. Part of this lot is rented to A. A. Hopkins & Co., at \$100.00 per annum.
No. 3. Hose.....	Pond street.....	3	238	3,550	2,940 00	15,000 00	17,840 00	Brick building, built in 1883, and cost \$15,000.
No. 4. Hose.....	Mill street.....	8	426	6,780	3,051 00	15,000 00	18,051 00	Brick building, built in 1891-2, and cost \$17,322.25.
No. 5. Engine..... Hook and Ladder No. 7. }	Olney street.....	13	129	4,569	2,285 00	7,000 00	9,285 00	Brick building, built in 1866.
No. 6. Hose.....	Benevolent street....	20	357	5,808	5,808 00	18,000 00	23,808 00	Brick building, built in 1866, and enlarged in 1880-91.
No. 7. Hose..... Protective No. 1.....	Richmond street.....	32	272	.....	.....	25,000 00	25,000 00	Brick building, erected in 1866, with an addition built in 1889-90, on land leased of the Dexter Donation.
No. 8. Engine..... Hook and Ladder No. 2. }	Harrison street.....							

FIRE STATIONS—(Continued).

COMPANY.	LOCATION.	ASSESSORS' VALUATION.		Area, square feet	ASSESSORS' VALUATION.			REMARKS.
		Plat No.	Lot No.		Land.	Buildings.	Total.	
No. 9. Hose..... } Hook and Ladder No. 6. }	Atwells avenue and America street.....	28	226	6,126	\$3,676 00	\$19,500 00	\$23,176 00	Brick building, erected in 1884-5 and cost \$23,000. The part located on America street is used for school purposes.
No. 10. Engine.....	Burnside street.....	48	475	7,886	1,656 00	4,000 00	5,656 00	Wood building, erected in 1872.
No. 11. Hose.....	Greenwich street.....	49	52	6,115	2,446 00	24,000 00	26,446 00	Brick building, built in 1888-9, cost \$21,097.07, enlarged in 1893-4 at a cost of \$6,650.79. Included in the building is a ward room.
No. 12. Engine.....	Smith and Orms sts....	68	621	6,462	2,910 00	15,000 00	17,910 00	Brick building, built in 1875, re-modeled in 1903. A brick addition was built in 1885, for ward room and evening schools.
No. 13. Hose.....	Central street.....	36	67	3,543	1,240 00	5,200 00	6,440 00	Brick building, built in 1874-5, and cost \$7,560.
No. 14. Engine.....	Putnam and Amherst streets.....	62	109	4,116	1,029 00	10,000 00	11,029 00	Brick building, built in 1875, and cost \$10,000. An addition built in 1893-4, cost \$6,395.69.
No. 15. Hose..... } Hook and Ladder No. 4. }	Wickenden street.....	16	471	11,036	6,622 00	42,000 00	48,622 00	Brick building, built in 1875-6, cost \$40,735.35. The Third District Police occupy a part of this building; also brick building, built in 1895-6 for Hook and Ladder No. 4, cost \$12,620.

No. 17. Hose.....	71	236	11,122	\$2,002 00	\$9,000 00	\$11,002 00	Wood building, built in 1890, and cost \$11,021.27.
No. 18. Engine.....	8	58	3,932	1,180 00	5,000 00	6,180 00	Brick building, built in 1896.
No. 19. Engine.....	58	377	9,456	2,364 00	15,000 00	17,364 00	Brick building, completed in 1896, and cost \$18,394.00.
No. 20. Hose.....	108	156	5,123	1,537 00	7,000 00	8,537 00	Received from Johnston in 1898.
Hook and Ladder No. 3.....	34	190	30,787	1,231 00	10,000 00	11,231 00	Wood building, completed in 1899, and cost \$11,467.50.
Hook and Ladder No. 5.....	68	320	5,056	1,516 00	12,000 00	13,516 00	Brick building, completed in 1901-2.
Hook and Ladder No. 8.....	48	926	7,646	1,447 00	12,000 00	13,447 00	Brick building, completed in 1886, and cost \$14,485.38. A portion used for a ward room and for school purposes.
Reserve Apparatus.....	107	189	4,000	720 00	10,000 00	10,720 00	Brick building, completed in 1901-2.
Charles street.....	16	82	.....	.....	4,500 00	4,500 00	Brick building, on land leased of the heirs of Harriot Brown.
North Main street.....	.....	.....	.....	.....	.....	600 00	
Broad street.....	.....	.....	.....	.....	.....	.....
Plainfield street.....	.....	.....	.....	.....	.....	.....
Manton avenue.....	.....	.....	.....	.....	.....	.....
Douglas avenue.....	.....	.....	.....	.....	.....	.....
Public street.....	.....	.....	.....	.....	.....	.....
Laurel Hill avenue.....	.....	.....	.....	.....	.....	.....
South Main street.....	.....	.....	.....	.....	.....	.....
Mt. Pleasant avenue.....	.....	.....	.....	.....	.....	.....
Totals.....	.....	.....	153,425	\$132,494 00	\$451,200 00	\$583,694 00	

POLICE STATIONS AND WARD ROOMS.

NAME.	LOCATION.	ASSES- SOYS'		Area, square feet.	ASSESSORS' VALUATION.			REMARKS.
		Plat No.	Lot No.		Land.	Buildings.	Total.	
Station No. 1.....	Fountain street.	25	129	25,589	\$44,781 00	\$135,000 00	\$179,781 00	Group of buildings built of brick, connected to- gether and occupied by Police Headquarters, the police of the first district, the Police Court, and Inspector of Milk. There is also a Ward Room in the building. Completed in 1896.
Station No. 2.....	Chalkstone ave..	2	23	7,960	3,382 00	27,500 00	31,082 00	Brick building, built in 1876. Stable built in 1885.
Station No. 3.....	Wickenden st...	16	471	.....	.....	.....	.....	See "Fire Stations" for valuations.
Station No. 4.....	Knight street...	29	210	10,432	3,651 00	14,000 00	17,651 00	Brick building. Brick stable erected in 1894-5.
Station No. 5.....	Plain street....	23	518	12,000	4,200 00	28,500 00	32,700 00	Brick building, built in 1885-6 at a cost of \$29,050.00; also brick stable completed in 1895, cost \$4,628.07.
Station No. 6.....	Chaffee street...	62	392	10,157	2,843 00	22,600 00	24,843 00	Brick buildings, erected in 1890-1 at a cost of \$29,- 914.35. Enlarged in 1898.
Station No. 7.....	Potter avenue...	49	196	13,170	3,293 00	35,000 00	38,293 00	Brick building, completed in 1902.
Ward Room.....	Pallas street ...	28	27	4,022	2,056 00	5,000 00	7,026 00	Brick building, erected in 1872. A small portion of this lot is rented to G. H. Hagan at \$18 per annum, and a portion used for a bell tower.
Ward Room.....	Beacon avenue...	23	547	3,655	1,279 00	2,500 00	3,779 00	Wood building, removed from Winter street in 1888, and rebuilt at a cost of \$2,284.82.
Ward Room and Schools.....	Atwells and Academy aves., }	65	1	4,289	1,201 00	12,500 00	13,701 00	Brick building, erected in 1889 at a cost of \$16,022.48, furnished; occupied as a Ward Room and for schools.
Totals.....		.....	.....	91,204	\$66,856 00	\$282,000 00	\$348,856 00	

See Fire Stations for additional Ward Rooms.

Asses- sors' Plat No.	Lot No.	LOCATION.	Area, square feet	ASSESSORS' VALUATION.			REMARKS.
				Land.	Buildings.	Total.	
11	2	Hope, Lloyd and Angell sts..	1,685,962	\$252,894 00	\$121,000 00	\$373,894 00	Dexter Asylum and farm.
32	200	Dexter, Parade and Waterloo streets, and State Armory..	395,410	177,935 00	.....	177,935 00	Dexter Training Ground. Reserved and appropriated by the will of Mr. Dexter as a training field. A bronze statue of Ebenezer Knight Dexter, donated by Henry C. Clark, Esq., is located on this field.
10	{ 63	No. Main st. & Arsenal lane..	9,688	17,815 00	2,000 00	19,815 00	Leased to J. B. Barnaby estate at \$300 per annum and taxes.
10	62	No. Main st. & Arsenal lane..	1,670	5,845 00	1,500 00	7,345 00	Leased to Horace B. Knowles at \$525 per annum and taxes.
10	606	Meeting st. near No. Main st.	5,820	7,100 00	1,000 00	8,100 00	Leased to William V. Wallace at \$350 per annum and taxes.
8	63	North Main and Howell sts..	4,000	1,200 00	.....	1,200 00	Leased to Rufus Green Est. at \$125 per annum and taxes.
8	64	Scott st., east side	9,028	1,083 00	.....	1,083 00	Leased to Maggie P. Gray at \$112 per annum and taxes.
8	207	Doyle ave. and Scott st.....	2,220	333 00	.....	333 00	
8	133	Howell and Scott sts.....	6,593	791 00	.....	791 00	Leased to William Urquhart at \$100 per annum and taxes.
8	211	Doyle ave., south side	7,475	1,346 00	.....	1,346 00	Leased to Teresa S. Carroll at \$65 per annum and taxes.
8	212	Doyle ave., south side	5,941	1,069 00	.....	1,069 00	Leased to Annie McMillan Patterson at \$70 per annum and taxes.

DEXTER DONATION—(Continued).

Asses- sors'	Lot No.	LOCATION.	Area, square feet	ASSESSORS' VALUATION.			REMARKS.
				Land.	Buildings.	Total.	
8	213	Doyle ave., south side.....	5,940	\$1,069 00	.....	\$1,069 00	Leased to William S. Smith at \$70 per annum and taxes.
8	{ 214 215 }	Doyle ave., south side.....	11,868	2,136 00	.....	2,136 00	Leased to Josephine M. Walling at \$110 per annum and taxes.
8	216	Doyle ave., south side.....	5,928	1,067 00	.....	1,067 00	Leased to Jesse B. Sweet at \$54 per annum and taxes.
8	217	Doyle ave., south side.....	5,925	1,066 00	.....	1,066 00	Leased to Lafayette Rogers at \$64 per annum and taxes.
8	218	Doyle ave., south side.....	5,921	1,066 00	.....	1,066 00	Leased to William S. Smith at \$53 per annum and taxes.
8	219	Doyle ave., south side.....	5,917	1,065 00	.....	1,065 00	Leased to Sarah A. Fitzgerald at \$53 per annum and taxes.
8	220	Doyle ave., south side.....	5,913	1,064 00	.....	1,064 00	Leased to Sarah A. Fitzgerald at \$53 per annum and taxes.
8	{ 221 222 }	Doyle ave., south side.....	11,814	2,127 00	.....	2,127 00	Leased to Sarah A. Fitzgerald at \$106 per annum and taxes.
8	223	Doyle ave., south side.....	5,901	1,062 00	.....	1,062 00	Leased to Sarah A. Fitzgerald at \$53 per annum and taxes.
8	225	Doyle ave., south side.....	23,567	4,241 00	.....	4,241 00	Rented to City of Providence at \$140 per annum. Doyle Avenue Grammar School House is located on this lot.
8	228	Doyle ave., south side.....	5,882	1,059 00	.....	1,059 00	Leased to Alfred Smith at \$53 per annum and taxes.
8	{ 229 230 }	Doyle ave. and Camp st.....	13,931	3,858 00	.....	3,858 00	Leased to Edward L. Spink at \$175 per annum and taxes.
8	231	Camp st., near Doyle ave.....	7,759	1,785 00	.....	1,785 00	Leased to T. Henry Dunlap at \$75 per annum and taxes.
8	{ 232 233 }	Camp st., and Doyle ave.....	14,847	3,921 00	.....	3,921 00	Leased to James W. Ross at \$180 per annum and taxes.

8	234	Doyle ave., south side.....	8,919	\$1,338 00	.....	1,339 00	Leased to Phoebe E. Preetwich at \$53 per annum and taxes.
8	235	Doyle ave., south side.....	8,928	1,339 00	.....	1,340 00	Leased to Duncan Grant estate at \$53 per annum and taxes.
8	236	Doyle ave., south side.....	8,936	1,340 00	.....	1,342 00	Leased to Silas E. Field at \$50 per annum and taxes.
8	237	Doyle ave., south side.....	8,945	1,342 00	.....	1,343 00	Leased to Charles Fierstein at \$50 per annum and taxes.
8	238	Doyle ave., south side.....	8,954	1,343 00	.....	1,355 00	Leased to Charles L. and Henry R. Rogers at \$50 per annum and taxes.
8	239	Doyle ave., south side.....	8,963	1,355 00	.....	1,256 00	Leased to Charles E. Taylor at \$53 per annum and taxes.
8	240	Doyle ave., south side.....	8,971	1,256 00	.....	1,257 00	Leased to Francisco F. Millard at \$53 per annum and taxes.
8	241	Doyle ave., south side.....	8,980	1,257 00	.....	1,258 00	Leased to Susan T. Weeks at \$55 per annum and taxes.
8	242	Doyle ave., south side.....	8,989	1,258 00	.....	1,170 00	Leased to Mary J. Booth at \$55 per annum and taxes.
8	243	Doyle ave., south side.....	8,997	1,170 00	.....	3,516 00	Leased to Charles J. Burdick at \$165 per annum and taxes.
8	244	Doyle ave., south side.....	27,045	3,516 00	.....	2,169 00	Leased to Caleb R. Barney at \$110 per annum and taxes.
8	245	Doyle ave., south side.....	18,073	2,169 00	.....	4,846 00	Leased to George R. Viall at \$125 per annum and taxes.
8	246	Hope st. and Doyle ave.	13,845	4,846 00	.....	3,461 00	Leased to Matthias Abel at \$86.50 per annum and taxes.
8	247	Hope st., near Doyle ave.	13,845	3,461 00	.....	3,945 00	Leased to Thomas F. Gilbane at \$80 per annum and taxes.
8	132	Hope st. and Doyle ave.	8,745	3,945 00	.....	3,584 00	Leased to William Gilbane at \$80 per annum and taxes.
8	408	Hope st., near Doyle ave.	11,947	3,584 00	.....	1,220 00	Leased to James C. Conroy at \$60 per annum and taxes.
8	410	Doyle ave., south side.....	8,133	1,220 00	.....	1,192 00	Leased to James C. Conroy at \$45 per annum and taxes.
8	411	Doyle ave., south side.....	7,949	1,192 00	.....	1,165 00	Leased to Thomas H. Donahue at \$45 per annum and taxes.
8	412	Doyle ave., south side.....	7,766	1,165 00	.....	

DEXTER DONATION—(Continued).

Asses- sors' Plat No.	Lot No.	LOCATION.	Area, square feet	ASSESSORS' VALUATION.			REMARKS.
				Land.	Buildings.	Total.	
8	413	Doyle ave., south side.....	7,583	\$1,137 00	.....	\$1,137 00	Leased to Thomas A. O'Gorman at \$45 per annum and taxes.
8	414	Doyle ave., south side.....	7,400	1,184 00	.....	1,184 00	Leased to Thomas A. O'Gorman at \$45 per annum and taxes.
8	415	Doyle ave., south side.....	7,217	1,155 00	.....	1,155 00	Leased to James P. Millard at \$60 per annum and taxes.
8	416	Doyle ave., south side.....	7,034	1,125 00	.....	1,125 00	Leased to James P. Millard at \$60 per annum and taxes.
8	417	Morris and Doyle ayes.....	4,921	1,093 00	.....	1,093 00	
8	418	Morris ave., west side, near Doyle ave.....	4,783	765 00	.....	765 00	
8	419	Morris ave., west side, near Doyle ave.....	4,590	880 00	.....	880 00	
8	400	Doyle ave., south side.....	1,248	624 00	.....	624 00	
29	132	Westminster st., near junction with Cranston st....	4,541	19,299 00	.....	19,299 00	Leased to James Hanley for \$1,000 per annum and taxes.
32	210	Cranston st.....	6,032	3,016 00	.....	3,016 00	{ leased to Mary W. Jopp at \$90 per annum and taxes. { leased to Rhode Island Hospital Trust Co., trustee, at \$88 per annum and taxes.
32	211	Cranston st.....	6,785	3,393 00	.....	3,393 00	Leased to Edward Rice at \$170 per annum and taxes.
32	212	Cranston st.....	6,032	3,016 00	.....	3,016 00	Leased to James F. Angell at \$160 per annum and taxes.

32	253	Cranston st., west side.....	\$6,032	\$3,016 00	.....	\$3,016 00	Leased to James G. Warren at \$100 per annum and taxes.
32	256	Harrison st., west side.....	5,025	2,513 00	.....	2,513 00	Leased to Sally Reed at \$75 per annum and taxes.
32	256	Harrison st., west side.....	5,025	2,513 00	.....	2,513 00	Leased to Elizabeth J. Blanchard at \$75 per annum and taxes.
32	237	Harrison st., west side.....	5,025	2,513 00	.....	2,513 00	Leased to Elizabeth P. Walden at \$75 per annum and taxes.
32	238	Harrison st., west side.....	5,025	2,513 00	.....	2,513 00	Leased to John F. Pierce at \$75 per annum and taxes.
32	239	Harrison st., west side.....	5,025	2,513 00	.....	2,513 00	Leased to John F. Pierce at \$75 per annum and taxes.
32	240	Harrison st., west side.....	5,025	2,513 00	.....	2,513 00	Leased to John F. Pierce at \$75 per annum and taxes.
32	244	Harrison st., west side.....	5,025	2,513 00	.....	2,513 00	Leased to Caleb G. Burrows estate at \$70 per annum and taxes.
32	245	Harrison st., west side.....	5,025	2,513 00	.....	2,513 00	Leased to John F. Pierce at \$70 per annum and taxes.
32	246	Harrison st., west side.....	5,025	2,513 00	.....	2,513 00	Leased to Ray G. Burlingame at \$70 per annum and taxes.
32	247	Harrison st., west side.....	5,025	2,513 00	.....	2,513 00	Leased to Benjamin F. Arnold at \$70 per annum and taxes.
32	248	Harrison st., west side.....	5,025	2,513 00	.....	2,513 00	Leased to John B. and Arthur R. Bartlett, Trustees, at \$70 per annum and taxes.
32	249	Harrison st., west side.....	5,025	2,513 00	.....	2,513 00	Leased to Presbary Hoxie, Trustee, at \$70 per annum and taxes.
32	250	Harrison st., west side.....	5,025	2,513 00	.....	2,513 00	Leased to John A. Bennett at \$70 per annum and taxes.
32	259	Harrison st., east side.....	5,025	2,513 00	.....	2,513 00	Leased to Louise A. Tourtellot at \$70 per annum and taxes.
32	260	Harrison st., east side.....	5,025	2,513 00	.....	2,513 00	Leased to Mary Dow at \$70 per annum and taxes.
32	261	Harrison st., east side.....	5,025	2,513 00	.....	2,513 00	Leased to William A. Spink estate at \$70 per annum and taxes.
32	262	Harrison st., east side.....	5,025	2,513 00	.....	2,513 00	Leased to Amey E. Williams at \$70 per annum and taxes.

32	289	Hammond st., west side.....	5,025	\$2,513 00	\$2,513 00	Leased to Edward B. Hance at \$65 per annum and taxes.
32	290	Hammond st., west side.....	5,025	2,513 00	2,513 00	Leased to Caroline H. Jenks at \$65 per annum and taxes.
33	293	Hammond st., west side.....	15,075	7,538 00	7,538 00	Rented to the City of Providence at \$75 per annum. A school building is located on this lot.
32	294	Hammond st., west side.....	4,066	2,900 00	2,900 00	Leased to Albert H. Smith estate at \$70 per annum and taxes.
32	298	Hammond st., east side.....	5,387	3,340 00	3,340 00	Leased to Horace Remington at \$65 per annum and taxes.
32	298	Hammond st., east side.....	5,025	2,513 00	2,513 00	Leased to Sidney S. Williams at \$65 per annum and taxes.
32	300	Hammond st., east side.....	5,025	2,513 00	2,513 00	Leased to Caroline E. Mathewson at \$65 per annum and taxes.
32	301	Hammond st., east side.....	5,025	2,513 00	2,513 00	Leased to Hannah Pratt at \$65 per annum and taxes.
32	302	Hammond st., east side.....	5,025	2,513 00	2,513 00	Leased to Cora L. Armitage at \$65 per annum and taxes.
32	303	Hammond st., east side.....	5,025	2,513 00	2,513 00	Leased to Advent Christian Church at \$65 per annum and taxes.
32	305	Hammond st., east side.....	5,025	3,015 00	3,015 00	Leased to Samuel Mowry estate at \$80 per annum and taxes.
32	306	Hammond st., east side.....	5,025	2,513 00	2,513 00	Leased to Abba Burlingame at \$65 per annum and taxes.
32	307	Hammond st., east side.....	5,025	2,513 00	2,513 00	Leased to Abba Burlingame at \$70 per annum and taxes.
32	308	Hammond st., east side.....	5,025	2,513 00	2,513 00	Leased to Samuel Moore at \$70 per annum and taxes.
67	217	Promenade and Valley sts....	15,645	939 00	939 00	Thatch right.
15	10	Waterman and Pitman sts....	29,544	591 00	591 00	Thatch right.
Totals.....			2,832,440	\$686,468 00	\$125,500 00	\$821,968 00

GENERAL SUMMARY OF REAL ESTATE.

SCHEDULE.	AREA, Sq. FEET.	ASSESSORS' VALUATION.		
		Land.	Buildings and Improvements.	Total.
Water Works.....	15,371,374	*\$750,544 00	†\$2,503,023 00	\$3,253,567 00
Miscellaneous.	3,931,816	654,061 00	46,000 00	700,061 00
Miscellaneous Public Buildings, etc.....	7,391,589	1,043,047 00	1,071,000 00	2,114,047 00
Parks and Squares..	23,502,586	1,528,693 00	122,800 00	1,651,493 00
Public School Estates	1,746,834	475,782 00	2,230,100 00	2,705,882 00
Fire Stations.....	183,425	132,494 00	451,200 00	583,694 00
Police Stations and Ward Rooms.....	91,304	66,856 00	282,000 00	348,856 00
Dexter Donation....	2,832,440	696,468 00	125,500 00	821,968 00
Totals.....	55,051,368	\$5,347,945 00	\$6,831,623 00	\$12,179,568 00

* Includes improvements on a part of the property.

† Includes valuations, by Commissioner, of distribution mains, etc.

The following is a summary of real and personal property, exclusive of cash in the treasury, held by the City of Providence on September 30, 1903 viz.:

Trust Funds, as per page 127.....	\$465,541 02
Personal Property, as per page 134.....	639,853 95
Sinking Funds, as per page 14.....	4,527,482 45
Real Estate, as per page 188.....	12,179,568 00
Total.....	\$17,812,446 10

SCHEDULE OF PRODUCTIVE REAL ESTATE BELONGING TO THE DEXTER DONATION.

OF TENANTS.	WHERE LOCATED.	RATE PER ANNUM.	YEARS	TERMINATION OF LEASE.
Ross.....	Two lots on Doyle avenue.....	\$180 00	40	July 1, 1911
Spink.....	Two lots " ".....	175 00	40	July 1, 1911
Viall.....	One lot " ".....	125 00	40	Jan. 1, 1911
Abel.....	One lot " ".....	86 50	40	July 1, 1941
Dunlap.....	One lot " ".....	75 00	40	July 1, 1943
Booth.....	One lot " ".....	55 00	40	July 1, 1911
M. Walling.....	Two lots " ".....	110 00	40	Jan. 1, 1932
Sweet.....	One lot " ".....	54 00	40	Jan. 1, 1927
Rogers.....	One lot " ".....	54 00	40	Jan. 1, 1927
Committee.....	Four lots " ".....	140 00		
Barney.....	Two lots " ".....	110 00	40	Jan. 1, 1911
Weeks.....	One lot " ".....	55 00	40	May 1, 1911
Burdick.....	Three lots " ".....	165 00	40	July 1, 1911
Taylor.....	One lot " ".....	53 00	40	July 1, 1913
F. Millard.....	One lot " ".....	53 00	40	July 1, 1913
Millard.....	One lot " ".....	60 00	40	July 1, 1936
Millard.....	One lot " ".....	60 00	40	Oct. 1, 1936
S. Smith.....	One lot " ".....	53 00	40	April 1, 1912
Fitzgerald.....	One lot " ".....	53 00	40	May 1, 1932
Fitzgerald.....	Two lots " ".....	106 00	40	May 1, 1912
Fitzgerald.....	One lot " ".....	53 00	40	May 1, 1932
Fitzgerald.....	One lot " ".....	53 00	40	July 1, 1912
Prestwich.....	One lot " ".....	53 00	40	Oct. 1, 1913
Grant estate.....	One lot " ".....	53 00	40	Oct. 1, 1913
Smith.....	One lot " ".....	53 00	40	Oct. 1, 1913
P. Dodge estate.....	One lot " ".....	53 00	40	July 1, 1913
MacMillan Pater-				
.....	One lot " ".....	70 00	40	April 1, 1914
S. Smith.....	One lot " ".....	70 00	40	April 1, 1914
Merstein.....	One lot " ".....	50 00	40	Nov. 1, 1942
and Henry R.				
.....	One lot " ".....	50 00	40	May 1, 1914
Jeld.....	One lot " ".....	50 00	40	Nov. 1, 1913
Conroy.....	One lot " ".....	60 00	40	May 1, 1928
Carroll.....	One lot " ".....	65 00	40	April 1, 1914
P. Gilbane.....	1½ lots " ".....	80 00	40	July 1, 1934
Gilbane.....	1½ lots " ".....	80 00	40	July 1, 1934
Conroy.....	One lot " ".....	45 00	40	Oct. 1, 1934
H. Donohue.....	One lot " ".....	45 00	40	Oct. 1, 1934
A. O'Gorman.....	Two lots " ".....	90 00	40	Dec. 1, 1934
Urquhart.....	Two lots on Bacon and Scott sts.	100 00	40	Dec. 1, 1911
Naby estate.....	Tavern estate on North Main st.	800 00	40	Nov. 1, 1911
V. Wallace.....	House and lot on Meeting st.	350 00	40	Nov. 1, 1911
Knowles.....	House & lots south of tavern est.	525 00	40	June 1, 1914
Greene estate.....	Dwight lands.....	125 00		
Gray.....	Dwight lands.....	112 00	40	April 1, 1940
Snley.....	Land on Westminster st.	1,000 00	40	Oct. 1, 1908
Department.....	Two lots on Harrison street....	50 00		
Committee.....	One lot " ".....	25 00		
d.....	One lot " ".....	75 00	40	Feb. 1, 1909
ount carried forward.....		\$6,057 50		

ates leased for forty years are subject to an additional sum equal to the
ty tax.

SCHEDULE OF PRODUCTIVE REAL ESTATE

BELONGING TO THE DEXTER DONATION.

NAMES OF TENANTS.	WHERE LOCATED.	RATE PER ANNUM.	YEARS.	TERMINATION OF LEASE.
Amount brought forward.....		\$6,057 50		
Elizabeth P. Walden.....	One lot on Harrison street.....	75 00	40	May 1, 1911
Elizabeth J. Blanchard.....	One lot " ".....	75 00	40	Feb. 1, 1911
John F. Pierce.....	One lot " ".....	75 00	40	Jan. 1, 1911
John F. Pierce.....	One lot " ".....	75 00	40	Jan. 1, 1911
John F. Pierce.....	One lot " ".....	75 00	40	Jan. 1, 1911
Caleb G. Burrows estate.....	One lot " ".....	70 00	40	Jan. 1, 1911
John F. Pierce.....	One lot " ".....	70 00	40	Feb. 1, 1911
Ray G. Burlingame.....	One lot " ".....	70 00	40	Mar. 1, 1911
Benjamin F. Arnold.....	One lot " ".....	70 00	40	Mar. 1, 1911
Presbary Hoxie, Trustee.....	One lot " ".....	70 00	40	Feb. 1, 1911
John B. and Arthur R.				
Bartlett, Trustees.....	One lot " ".....	70 00	40	Feb. 1, 1911
John A. Bennett.....	One lot " ".....	70 00	40	Aug. 1, 1911
Louise A. Tourtellot.....	One lot " ".....	70 00	40	Feb. 1, 1911
Mary Dow.....	One lot " ".....	70 00	40	Mar. 1, 1911
William A. Spink estate.....	One lot " ".....	70 00	40	April 1, 1911
Amey E. Williams.....	One lot " ".....	70 00	40	Feb. 1, 1911
Abbie G. Healey.....	One lot " ".....	70 00	40	Jan. 1, 1911
Sarah L. Sweet.....	One lot " ".....	70 00	40	Jan. 1, 1911
Catherine Cronin.....	One lot " ".....	75 00	40	Feb. 1, 1911
Richard B. Davis.....	One lot " ".....	75 00	40	Feb. 1, 1911
Edward McCabe.....	One-half lot " ".....	37 50	40	Jan. 1, 1911
Benjamin Comstock.....	One-half lot " ".....	37 50	40	Jan. 1, 1911
School Committee.....	Three lots on Hammond st.....	75 00		
Abba Burlingame.....	One lot " ".....	65 00	40	Nov. 1, 1911
Samuel Mowry.....	One lot " ".....	80 00	40	May 1, 1911
Hannah Pratt.....	One lot " ".....	65 00	40	May 1, 1911
Mary B. Sheldon.....	Two lots " ".....	140 00	40	Aug. 9, 1911
Cora L. Armitage.....	One lot " ".....	65 00	40	July 1, 1911
Caroline H. Jenks.....	One lot " ".....	65 00	40	Nov. 1, 1911
Edward B. Haines.....	One lot " ".....	65 00	40	Oct. 1, 1911
Ellen R. Angell.....	One lot " ".....	65 00	40	Nov. 1, 1911
James S. Kenyon.....	One lot " ".....	80 00	40	May 1, 1911
Clara I. and Elizabeth H.				
Pierce.....	One lot " ".....	70 00	40	May 1, 1911
Patrick Brown.....	One lot " ".....	70 00	40	May 1, 1911
John A. Bennett.....	One lot " ".....	70 00	40	Nov. 1, 1911
Samuel Moore.....	One lot " ".....	70 00	40	May 1, 1911
Abba Burlingame.....	One lot " ".....	70 00	40	May 1, 1911
Advent Christian Ch'rch.....	One lot " ".....	65 00	40	April 1, 1911
Caroline E. Mathewson.....	One lot " ".....	65 00	40	July 1, 1911
Sidney S. Williams.....	One lot " ".....	65 00	40	May 1, 1911
Horace Remington.....	One lot " ".....	85 00	40	May 1, 1911
Albert A. Smith estate.....	One lot " ".....	70 00	40	Nov. 1, 1911
James G. Warren.....	One lot on Cranston street.....	160 00	40	July 1, 1911
James F. Angell.....	One lot " ".....	160 00	40	May 20, 1911
Edward Rice.....	One lot " ".....	170 00	40	July 1, 1911
Mary W. Jopp.....	One-half lot " ".....	90 00	40	July 1, 1911
Rhode Island Hospital				
Trust Co., Trustee.....	One-half lot " ".....	68 00	40	July 1, 1911
Total.....		\$9,680 50		

SCHEDULE OF PRODUCTIVE REAL ESTATE

BELONGING TO THE CITY OF PROVIDENCE.

NAME OF TENANTS.	WHERE LOCATED.	RATE PER ANNUM.	YEARS.	TERMINATION OF LEASE.
School Society..	On room in Bourn street school building.....	\$25 00	1	
Sweet.....	Charles street, land, east side..	120 00	1	
Atwell	Field's Point Farm, part of.....	500 00	8	Jan. 1, 1905
Board of				
.....	Market square, City Building...	4,000 00	10	Jan. 1, 1910
an..	Pallas street, land.....	18 00	1	
kins & Co.....	Pond street, land.....	100 00	1	
Princeton.....	Roger Williams Park, Casino...	1,500 00		
Carpenter.....	South Water street, wharf.....	200 00		
Road Co.....	Right of way for tracks in Railroad terrace.....	100 00	1	
H. & Hartford				
ad Co.....	Use of India street.....	1,000 00	20	Dec. 20, 1920
		\$7,563 00		

BELONGING TO THE ANNA H. MAN TRUST FUND.

p Co.....	93 North Main street.....	\$600 00	5	May 1, 1908
g Carriage Co..	Cranston street.....	\$475 00	20	Mar. 1, 1919
Baker.....	" "	\$500 00	7	Oct. 15, 1905
utton.....	Broad street.....	\$800 00	5	Sept. 7, 1905
		\$2,375 00		

Taxes and assessments in addition to annual rent.

ANNUAL REPORT
OF THE
CITY TREASURER
FOR THE
FINANCIAL YEAR
1902-1903.

DR. CITY OF PROVIDENCE, in account current from October 1, 1902

To cash paid on Mayor's drafts and charged to the following accounts, viz. :		
Asylum Walls and Buildings.....	\$1,994 27	
Support of the Poor.....	34,617 59	
		\$36,611 86
Public Works:		
Highway Department:		
Sidewalks and Curbing.....	19,476 55	
Special Account.....	5,096 38	
General Account.....	301,728 72	
		326,301 65
Sewerage:		
Sewer Assessments.....	55 77	
Maintenance Account.....	116,976 98	
Construction Account.....	266,781 53	
		383,814 28
City Engineer's Department.....		47,577 31
Public Bridges.....		27,942 04
Public Lights.....		288,214 58
Public Works—Office.....		22,674 75
Water Works—Maintenance.....		162,156 74
Water Works—Construction.....		59,924 26
School Houses and Lots, Loan Account....	5,544 22	
Public Schools.....	688,880 76	
		694,424 98
State of Rhode Island:		
Licenses, State's proportion.....	65,826 50	
State Tax, City's proportion.....	311,441 66	
		377,268 16
Amount carried forward.....		\$2,426,610 61

ber 30, 1963, incl., with WALTER L. CLARKE, City Treasurer, CR.

received and credited to the follow-		
accounts, viz.:		
of 1902.....	\$3,138,715 56	
g in violation of the law.....	50 00	
		\$3,138,765 56
Commissioners of Sinking Funds:		
sideration for site of new Post Office		
Exchange place.....	1 00	
of building at east end of Exchange		
ce known as the "Three Ones"....	875 00	
Tax of 1895 with interest.....	12 41	
Tax of 1896 with interest.....	12 40	
Tax of 1897 with interest.....	11 77	
Tax of 1898 with interest.....	27 28	
Tax of 1899 with interest.....	273 88	
Tax of 1900 with interest.....	77 94	
Tax of 1901 with interest.....	4,135 48	
		5,427 16
encies:		
t Special Committee of City Coun-		
on Coal Distribution.....		15,320 80
enses:		
ount received for licenses.....		11,956 00
partment:		
of manure.....		108 00
Police Loan due November 1, 1932:		
eived from sale of $3\frac{1}{4}$ per cent. gold		
nds		238,000 00
ount carried forward.....		\$3,429,577 52

DR.

TREASURER'S REPORT, *Continued.*

Amount brought forward.....		\$2,426,610 61
Public Parks:		
General Account.....	\$8,220 88	
Roger Williams Park.....	40,042 56	
		48,263 44
Auditing Department.....		7,256 46
Blackstone Park Land Account.....		42,482 25
Board of Commissioners of Sinking Funds.....		16,163 80
Central Fire Station, etc.....		40,766 28
Chattlet Street Bridge.....		54,435 72
City Clerk's Department.....		7,662 36
City Council.....		19,994 91
City Hall.....		26,489 32
Clerk of Common Council and Clerk of Committees.....		4,518 78
Contingencies.....		61,565 97
Davis Park Improvement, Loan Account.....		436 23
Dog Licenses.....		142 60
Elections.....		24,232 68
Executive Department.....		7,252 59
Fire Department.....		360,000 00
Harbor.....		5,408 30
Health Department.....		53,497 85
Inspector of Buildings.....		4,149 65
Inspector of Milk.....		6,040 17
Inspector of Plumbing.....		5,675 00
Law Department.....		14,947 89
Man, Anna H., Trust Fund, Income Ac- count.....		796 66
Amount carried forward.....		\$3,238,789 52

TREASURER'S REPORT. *Continued.*

CR.

Amount brought forward.....		3,429,577 52
Interest on sewer assessments.....	1,255 28	
Interest on city tax of 1902.....	8,057 74	
Interest on daily balances from the following banks:		
Island Hospital Trust Co.....	6,488 62	
Industrial Trust Company.....	6,186 32	
Merchants National Bank.....	6,657 69	
Manufacturers Trust Company.....	7,394 39	
Provident National Bank.....	7,408 89	
National Bank of Commerce.....	7,431 04	
		50,879 97
Swift Bragunn Fund:		
Island Hospital Trust Co., dividends.....		20 20
Amount received from show licenses,		
.....	36,470 00	
for licenses.....	242,110 00	
		278,580 00
Accruals:		
Licenses collected, viz.:		
City Tax of 1895.....	3 65	
City Tax of 1896.....	3 65	
City Tax of 1897.....	3 65	
City Tax of 1898.....	7 15	
City Tax of 1899.....	54 75	
City Tax of 1900.....	9 25	
City Tax of 1901.....	174 60	
Amounts carried forward.....	\$256 70	\$3,759,057 69

DR.

TREASURER'S REPORT, *Continued.*

Amount brought forward.....		\$3,238,789 52
Mount Pleasant Fire Station.....		10 56
Municipal Court.....		6,685 96
North Burial Ground, Improvement Fund.....		25,238 25
Olneyville Free Library Association.....		1,000 00
Police Department.....		389,999 73
Printing.....		5,949 67
Providence Lying-in Hospital.....		2,000 00
Providence Public Library.....		20,000 00
Public Buildings.....		74,998 57
Receiving Tomb, North Burial Ground.....		13,842 02
Record Commissioners.....		966 68
Recorder of Deeds.....		8,000 00
Refurnishing Recorder's Department.....		565 02
Relief Fund for Firemen and Policemen.....		2,096 88
Rhode Island Hospital.....		10,000 00
Senator Anthony Prize Fund.....		110 00
Sealer of Weights and Measures.....		3,247 04
Tax Department.....		19,916 31
Treasury Department.....		29,778 56
Weybosset Bridge and River Walls.....		5,488 14
Commissioners of Sinking Funds:		
For redemption of bonds due in 1929		
(Public Improvement Loan)*.....	\$1,700 00	
For redemption of bonds due in 1937		
(Public Improvement Loan).....	8,200 00	
For redemption of bonds due in 1921		
(Sewer Loan).....	25,000 00	
Amounts carried forward.....	\$34,900 00	\$3,858,682 91

TREASURER'S REPORT, *Continued.*

CR.

Amounts brought forward.....	\$256 70	\$3,739,037 69
Miscellaneous:		
City Tax of 1902.....	81 25	
City Clerk, fees, etc.....	16 75	
Municipal Court and Clerk, fees.....	8,173 21	
Amount on account of 1902-1903 uncollected.....	6 00	
Amount on pay rolls uncollected.....	72 15	
Dividends on insurance policies.....	96 00	
Damage to fowl.....	3 60	
Land Keepers' returns.....	3 00	
Sectioners' returns.....	152 25	
City Treasurer, garnishee's fees.....	136 53	
Board of Canvassers and Registration returns.....	480 52	
City Messenger, returns.....	24 00	
Board of Weights and Measures, returns.....	2,296 59	
Board of Deeds, fees.....	8,466 26	
Cost of Seamen in Small Pox Hospital.....	252 00	
Removing old wires.....	6 00	
Removal of Dead Animals.....	2,175 00	
Municipal Taxes of 1902.....	185 60	
Dry Corporations, returns of special tax on gross earnings, viz.:		
Providence Telephone Co.....	\$10,059 60	
Providence Island Company.....	66,275 46	
Providence Gas Company.....	27,093 54	
Providence Electric Light and Power Co.....	34,780 29	
	138,208 89	161,092 32
Amount carried forward.....		\$3,920,150 01

DR. TREASURER'S REPORT, *Continued.*

Amounts brought forward.....	\$34,900 00	\$3,858,682 91
Commissioners of Sinking Funds:		
For redemption of bonds due in 1922		
(Sewer Loan).....	10,000 00	
For redemption of bonds due in 1923		
(Sewer Loan).....	10,000 00	
For redemption of bonds due in 1925		
(Sewer Loan).....	15,000 00	
For redemption of bonds due in 1926		
(Sewer Loan).....	10,000 00	
For redemption of bonds due in 1927		
(Sewer Loan).....	6,000 00	
For redemption of bonds due in 1928		
(Sewer Loan).....	4,000 00	
For redemption of bonds due in 1929		
(Sewer Loan).....	5,000 00	
For redemption of bonds due in 1930		
(Sewer Loan).....	6,000 00	
For redemption of bonds due in 1931		
(Sewer Loan).....	6,000 00	
For redemption of bonds due in 1911		
(School Loan).....	13,300 00	
For redemption of bonds due in 1925		
(School Loan).....	5,000 00	
For redemption of bonds due in 1927		
(School Loan).....	10,000 00	
For redemption of bonds due in 1929		
(School Loan).....	7,000 00	
For redemption of bonds due in 1912		
(Highway Loan).....	13,000 00	
Amounts carried forward.....	\$155,200 00	\$3,858,682 91

TREASURER'S REPORT, *Continued.*

CR.

Amount brought forward.....		\$3,920,150 01
Burial Ground:		
e of lots, interments, etc.....		26,449 31
Burial Ground Sinking Fund:		
e cents per foot on 9,477 square feet		
f land sold during the year.....		473 85
Department:		
es and costs received at Providence		
ounty Jail.....	\$154 70	
es, registering dogs.....	1,065 10	
es, costs and fees received at Police		
ourt.....	7,957 36	
icers' fees for commitments to State		
stitutions.....	3,751 30	
erest on deposits.....	5 00	
		12,903 46
Buildings — Receipt Account:		
e of flag poles.....		12 00
Parks — General Account:		
r rents, sale of material, etc.....		146 96
Parks — Roger Williams Park:		
r use of boats, etc.....		8,956 31
Amount carried forward.....		\$3,969,091 90

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TREASURER'S REPORT, *Continued.*

Amounts brought forward.....	\$155,200 00	\$3,858,682 91
Commissioners of Sinking Funds:		
For redemption of bonds due in 1924		
(Highway Loan).....	25,000 00	
For redemption of bonds due in 1927		
(Highway Loan).....	10,000 00	
For redemption of bonds due in 1930		
(Highway Loan).....	6,000 00	
For redemption of bonds due in 1909		
(Davis Estate Loan).....	3,000 00	
For redemption of bonds due in 1922		
(Park Loan).....	10,000 00	
For redemption of bonds due in 1947		
(Park Loan).....	5,750 00	
For redemption of Assumed Johnston		
bonds	7,300 00	
For redemption of bonds due in 1939		
(Johnston Bonds).....	2,200 00	
For redemption of bonds due in 1929		
(Weybosset Bridge).....	5,500 00	
For redemption of bonds due in 1932		
(Fire and Police Loan).....	5,160 00	
		235,110 00
Sinking Fund Water Loan due 1906:		
For excess of receipts from water rents,		
etc., over and above the expenses of		
managing the water works for the		
fiscal year 1902-1903.....		260,507 58
Amount carried forward.....		\$4,354,300 49

TREASURER'S REPORT, *Continued.*

CR.

Amount brought forward.....		\$3,969,091 90
Schools:		
All tax of 1900.....	\$7 00	
All tax of 1901.....	695 00	
All tax of 1902.....	18,735 80	
Contribution of non-resident pupils.....	10,611 20	
Rate of Rhode Island.....	31,591 10	
For services of Instructor in Music.....	147 50	
Amount uncalled for account, 1902-1903.....	2 75	
Cost of School Furniture.....	375 19	
Cost of books and supplies.....	143 02	
		62,308 56
Works—Bridges:		
For labor, material, etc.....		220 66
Works—Highways;		
Cost of manure and sweepings.....	1,174 00	
For labor and material.....	20,734 33	
Amount on pay roll uncalled for.....	45 00	
		21,953 33
Works—Lights:		
Cost of lanterns, etc.....		170 24
Works—Sewer Maintenance:		
For labor and material.....		2,006 21
Works—Sidewalks and Curbing:		
For curbing and concreting.....		24,403 66
Works—Water Maintenance:		
Cost of material, labor, etc.....		31,903 57
Amount carried forward.....		\$4,112,058 13

DR.

TREASURER'S REPORT.- *Continued.*

Amount brought forward.....		\$4,354 300 43
Interest:		
Interest on temporary loans.....		26,135 9
Interest on assumed Johnston Bonds....	\$7,240 00	
Interest on Davis Estate Loan due in 1909.....	3,000 00	
Interest on Fire and Police Loan due 1932.....	4,192 50	
Interest on Highway Loan due 1912....	4,500 00	
Interest on Highway Loan due 1924....	48,000 00	
Interest on Highway Loan due 1927....	20,000 00	
Interest on Highway Loan due 1930....	9,000 00	
Interest on Johnston Annexation Loan due 1939.....	4,980 00	
Interest on Public Improvement Loan due 1929.....	2,520 00	
Interest on Public Improvement Loan due 1937.....	22,400 00	
Interest on Park Loan due 1922.....	20,000 00	
Interest on Park Loan due 1947.....	23,590 00	
Interest on School Loan due 1911.....	12,000 00	
Interest on School Loan due 1925.....	12,000 00	
Interest on School Loan due 1927.....	20,000 00	
Interest on School Loan due 1929.....	12,250 00	
Interest on Sewer Loan due 1921.....	45,000 00	
Interest on Sewer Loan due 1922.....	20,000 00	
Interest on Sewer Loan due 1923.....	20,000 00	
Interest on Sewer Loan due 1925.....	32,000 00	
Interest on Sewer Loan due 1926.....	20,000 00	
Interest on Sewer Loan due 1927.....	12,000 00	
Amounts carried forward.....	\$347,672 50	\$4,380,436 43

TREASURER'S REPORT, *Continued.*

CR.

Amount brought forward.....		\$4,112,058 13
Amount received for rents.....		5,076 28
Williams Park, Receipt Account:		
For rent of Casino, etc.....		984 58
For Anthony Prize Fund:		
For I. Hospital Trust Co., dividends.....		106 25
For Assessments:		
Amount received.....		49,913 94
For Construction:		
Labor and material.....		2,000 50
For Streets and Sewers:		
For entering sewers.....	\$3,291 60	
For cleaning streets.....	1,446 00	
For building Vaults.....	325 00	
		5,062 60
For the Poor:		
For wood, etc.....		12,372 73
For Department:		
For lithograph copies of Assessors' maps.....		452 50
Amount carried forward.....		\$4,188,027 51

DR.

TREASURER'S REPORT, *Continued.*

Amounts brought forward	\$374,672 50	\$4,380,436
Interest:		
Interest on Sewer Loan due 1928	7,000 00	
Interest on Sewer Loan due 1929	7,500 00	
Interest on Sewer Loan due 1930	9,000 00	
Interest on Sewer Loan due 1931	9,000 00	
Interest on Water Loans due 1906	77,700 00	
Interest on Water Loan due 1916	16,905 00	
Interest on Water Loan due 1923	32,680 00	
Interest on Water Loan due 1926	8,000 00	
Interest on Water Loan due 1927	10,000 00	
Interest on Water Refunding Loan due 1930	79,980 00	
Interest on Weybosset Bridge Loan due 1929	9,450 00	
		641,887
Water Loan:		
Paid bonds due July 1, 1900		3,000
Loan Account:		
October, 1902, Notes Nos. 2161 to 2164 inclusive	205,720 83	
November 1902, Notes Nos. 2115, 2124, 2126, 2127, 2135, 2136, 2144, 2147, 2148, 2149, 2151 to 2156 inclusive, 2165 to 2170 inclusive, 2175	337,700 00	
January, 1903, Notes Nos. 2028 and 2146	10,803 08	
		554,223
Amount carried forward		\$5,579,547 8

TREASURER'S REPORT, *Continued.*

CR.

Amount brought forward		\$4,188,027 51
City Department:		
Taxes collected on sewer assessments.....	\$174 07	
Taxes collected on taxes of 1902.....	3,976 38	
Taxes collected on poll tax of 1900..	1 50	
Taxes collected on poll tax of 1901..	171 75	
Taxes collected on poll tax of 1902..	1,581 50	
		5,905 20
Rents:		
Amount received for water.....		616,711 86
I. Mann Trust Fund:		
Received of National Eagle Bank, Providence, for final dividend in liquidation of \$4.20 per share on 96 shares of stock.....	403 20	
Received of National Bank of North America for amount in reduction of capital stock of said Bank.....	5,614 00	
Received of National City Bank, New York, for U. S. Registered Bonds:		
\$70,000.00 4 per cent. due 1907 at 111.....	\$77,700 00	
\$50,000.00 5 per cent. due 1904 at 102 11-16.....	51,343 75	
	129,043 75	
		135,060 95
I. Man Trust Fund, Income Account:		
Interest on bonds and stocks.....	5,416 84	
Dividends.....	2,137 82	
		7,554 66
Amount carried forward.....		\$4,953,260 18

TREASURER'S REPORT, *Continued.*

CR.

Amount brought forward.....		\$4,953,260 18
Es H. Smith Trust Fund:		
Received of R. I. Hospital Trust Co		
interest to April 30, 1903, on participa-		
tion account.....		35 91
Account:		
Note dated October 1, 1902	\$17,000 00	
Notes dated October 14, 1902.....	50,000 00	
Notes dated November 1, 1902.....	125,000 00	
Notes dated November 22, 1902.....	110,000 00	
Note dated January 14, 1903.....	9,199 23	
Notes dated January 23, 1903.....	90,000 00	
Notes dated March 4, 1903.....	9,000 00	
Notes dated April 16, 1903.....	29,000 00	
Notes dated May 14, 1903.....	100,000 00	
Notes dated June 13, 1903.....	155,720 83	
Notes dated July 2, 1903.....	66,000 00	
Notes dated September 18, 1903.....	36,000 00	
		796,920 06
Receipts.....		5,750,216 15
Balance cash on hand October, 1902.....		274,765 37
		\$6,024,981 52

MBER 1, 1903.

WALTER L. CLARKE,

City Treasurer.

CITY DOCUMENT.

[No. 3.]

ANNUAL REPORT
OF THE
SUPERINTENDENT
OF
PUBLIC BUILDINGS,
FOR THE YEAR
1903.



The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
63 Washington Street,
1904.

JOINT STANDING COMMITTEE ON CITY PROPERTY
1903.

JEREMIAH H. HALL, *Chairman.*

ROSWELL C. SMITH,

GEORGE H. GRANT,

WALTER A. PRESBREY,

ALDERMAN ABRAHAM A. GRAY.

D. F. HAYDEN,

Clerk of Committee

HENRY R. EVANS,

Superintendent of Public Buildings.

REPORT.

OFFICE OF THE
SUPERINTENDENT OF PUBLIC BUILDINGS,
December 31, 1903.

TO THE HONORABLE THE CITY COUNCIL:

It is my pleasure to present the thirty-fifth annual report of the Department of Public Buildings, showing improvement and amount of expenditures for the year 1903.

POOR DEPARTMENT.

From last winter's experience with the heating, it was found that when using the steam for sterilizing, "which requires high pressure," the steam had to be turned off of the boilers in Mr. Cummings's office and living rooms while they were using the sterilizer, and in very cold weather it made the office and living rooms very uncomfortable during the time the sterilizing was going on. Changes had to be made so the whole place could be heated at the same time, and this has been very satisfactorily done. All the windows have been provided with screens, signs placed over the out-
doors, yard graded, fences built, clothes poles set, and bells installed to ring from outside of office door.

FIRE STATIONS.

Station, No. 5, Olney and Hope Streets. Ceilings have been whitened, walls painted, woodwork varnished, rooms papered, new bath tub installed, and general overhauling of plumbing.

Fire Station, No. 4, Mill Street. Roof repaired and painted.

Fire Station, No. 17, Doyle Avenue and North Main Street. Ceilings whitened, walls painted, woodwork varnished, new floors laid in the bedrooms. The rain conductors have been connected with the sewer. Floor of wagon house has been asphalted and concrete repaired.

Fire Station, No. 10, Burnside Street. A new sitting room has been built on north side of building 18 feet by 12 feet, and a coat room 7 feet by 17½ feet, painted and varnished inside, which makes the station more comfortable and very satisfactory to the department.

Hook and Ladder, No. 5, Public Street, has been ceilinged overhead with cypress sheathing, woodwork varnished and painted.

The new Central Fire Station, Exchange Place, was turned over to the Fire Commissioners, March 26, 1903, and has been occupied by the Fire Department since that time. The building was built and furnished at an expense of \$166,036.81.

The old Central Fire Station, Exchange Place, was sold at public auction to Edwin A. Briggs, for \$875.

Fire Station, No. 12, junction Smith and Orms Streets has been completed, driveways on Smith Street paved with block paving, sidewalk concreted on Orms Street, exterior of building painted on outside. Accepted by the Fire Commissioners May 19, 1903, and occupied by the Fire Department since. Remodeling this building was an expense of \$10,000.

Fire Station, No. 16, Branch Avenue. Repaired and painted two coats on the outside, yard laid with asphalt, heavy teams can drive over, building connected with sewer.

Fire Station, No. 20, Manton Avenue. New dormer window frames and sash, as the old ones had decayed.

es had to be newly built. Stalls fitted up in basement
sick horses, and new manure pit built.

ew Fire Station, Mount Pleasant Avenue and Dover
et. Contract for erection was awarded September 3,
to Charles Crankshaw, for the sum of \$12,314.

SCHOOL HOUSES.

friendship Street. Sidewalks have been concreted.

ount Pleasant Avenue. The water leached into the cel-
o such an extent that the cold air ducts and furnace pit
filled with water, necessitating taking up the original
n and laying one all around the building, on the outside,
r down than the bottom of the cellar, to prevent water
ng in. This has proved very effectual and satisfactory.

ghland Avenue. Rain conductors have been connected
the sewer, and drains laid for connecting washout
ets when improvements are made. The sidewalks and
s have been concreted and cellar bottom repaired where
n up to lay drain.

andace Street. Two Smead heaters have been taken out
two ercer steam boilers installed, which are giving great
sfaction, both in heat and saving of coal, and much easier
ake care of. This is a hip roof building; the hips are
red with corner boards, which had given out and be-
e rotten and troublesome about leaking. These have
taken off and filled out with slate, which has made a
complete, finished and tight roof. All the chimney stacks
been taken down, a piece from the tops, and rebuilt with
land cement coping. Tin roof thoroughly repaired and
ated, yards concreted, and sidewalks repaired.

xford Street. The brick arches to all the dormer win-
s were beginning to loosen and were ready to fall. They
e all been taken down and rebuilt. Quite an amount of
trical work has been done. Glass panels put into the

doors to cellar stairways, which makes a great improvement in relation to light.

Berkshire Street. School building was overcrowded. To relieve this, the Admiral Street school building, which has been closed since the Berkshire Street School was first opened, has been repaired. Two new hot air furnaces installed, fences rebuilt, outbuildings shingled, yards and sidewalks concreted, and new floors laid throughout the building; ceilings whitened, side walls painted, and wood work varnished; sewer connections made. Occupied for school purposes about December 1, 1903.

Academy Avenue Special, or Tenth Ward Room building. Some changes have been made in the heating pipes, with good results. Sidewalks and yard have been repaired and iron gratings placed over area of cellar windows opening on side of the walks.

Hope Street High School. There has been a great complaint that some of the rooms could not be heated. I examined the building and found that the wind came in about the window frames, the work being very loose about them. I have had all the frames corked with oakum, puttied and painted, which has given the best of results. I have also had extra steam pipes added to those rooms. A steam pump, same as the one placed at the Broad Street School last year, has been installed. It has sufficient amount of pressure to operate the thermostats and keep the temperature even in all the rooms. Mr. Dennis has written me that he has been able to keep all the rooms warm enough during all of the severe weather, and expressed himself as being very much pleased with the results of these improvements.

Merino Street School (formerly Chatlett Street). Two new hot air furnaces had to be installed, as the old ones were worn out. These furnaces are larger and have given excellent satisfaction this winter.

Putnam Street. One new furnace has been installed, and

old one was worn out. Concrete in yard has been red.

Somerset Street. Fences have been reset and building ed outside.

lingly Street. New fences have been built on the south and north line, adjoining the church property. I would amend an iron fence on the street line.

ssical High School. Physical laboratory has been up. Mr. Peck, the principal, has been trying to have ne ever since the school was opened. He is very much ed with the work.

ice of the Superintendent of Schools, and the School rtment, has had changes and additions made to electric s, and new batteries installed.

irty-four school buildings have been painted outside as ws: Arnold Street, Atwell's Avenue, Africa Street, a Street, Berkshire Street, Bellevue Avenue, Branch ue Primary, Berlin Street, Benefit Street, Carpenter t, Candace Street, East Street, Eddy Street, Federal t Primary, Federal Street Grammar, Hospital Street, et Street, Harris Avenue, Highland Avenue, Julian t. Manual Training High, Meeting Street, Niagara t. Public Street, Plain Street, Peace Street, Ruggles t, Roger Williams Avenue, Smith Street, Slater Ave- Somerset Street, Thayer Street Primary, Warren Street, ard Avenue, at an expense of \$3,625.

mp Street. Tower on building became dangerous in winds and had to be taken off. School was dismissed al times for fear it would come down with a crash gh the roof of the building.

erica Street Special School. The old steam boiler given out beyond repair. A new steam boiler has been lled with direct and indirect heat. It has made a great ovement in the heating.

l Central Police Building, Canal Street. Two rooms

have been fitted up for the Superintendent of Janitors. A division fence built between adjoining estate on the east line. Roof has been painted.

Weather-proof electric bells have been installed at the following buildings, viz.: Charles Street, Hammond Street, Doyle Avenue, Grove Street, Montague Street, Mount Pleasant Avenue, Broad Street, Candace Street, Peace Street, Eddy Street, Bridgham Street, Chalkstone Avenue, Potter Avenue, Academy Avenue, Elmwood Avenue, Manton Avenue, Oxford Street, Camp Street, and Ralph Street.

Messer Street. Gutters, roof and conductors repaired, blackboards refinished.

Montague Street. New copper gutters, conductors, and slate repaired.

Mount Pleasant Avenue Special. Ceilings whitened, walls painted, and woodwork varnished.

Point Street. Roof and gutters repaired.

Orms Street Special. New steam boiler installed, new closets, and urinals and plumbing renewed.

Slater Avenue. New copper gutters, valleys, conductors and slate repaired.

Warren Street. New hanging gutters and conductors.

Willow Street. One new furnace installed.

Roosevelt Street. Fence on the bank wall was blown over in a gale of wind, carrying with it about seventy-five feet of granite coping, which has been repaired.

Highland Avenue. New ceilings for two rooms.

Willard Avenue. New ceilings for two rooms.

Atwell's Avenue. New copper valleys.

Somerset Street. New gutters and conductors.

Greeley Street. Exceedingly poor draft. Had the chimney stacks raised about six feet. It has helped the trouble very much. New gas fixtures in the principal's room.

Branch Avenue Grammar. Installed a new set bowl in Room No. 10, repaired concrete in yard.

Charles Street. Drain pipes were stopped up and were
 ed to dig them up, then found the pipes too small; laid
 r drain pipes.

Annual Training High. New copper gutters, new service
 supply.

Abraham Street. Installed a new water closet.

Madame Street. It became necessary to change the
 ing when the new boilers were installed.

March Avenue Primary. Concreted the sidewalks and

Wood Avenue. New hanging gutters and conductors.
 e expenditures for the past year have been divided as
 s:

ent of land.....	\$275 00
Schoolhouses and furniture.....	46,211 82
Fire Department buildings.....	51,124 93
Public grounds and unspecified buildings..	10,887 99
	<hr/>
	\$108,499 74

HENRY R. EVANS,

Superintendent of Public Buildings.

TABLE OF EXPENDITURES ON SCHOOL HOUSES.

NAMES.	Carpenters' Labor and Stock.	Painters' Labor and Stock.	Hardware and Iron Work.	Masons' Work, Plastering and Draining.	Plumbing and Roofing.	Gas Pipe Fitting and Fixtures.	Heating and Ven- tilating.	Blackboards.	Grading, Concrete Improvements.	Removing Night Soil and Drayage.	Electric Work and Miscellaneous.	Total.
Academy Avenue.....	\$20 20	88 26	\$2 73		\$49 53		\$125 56		\$13 60		\$63 62	\$283 50
Admiral Street.....	864 84	486 21		\$520 30	119 38		468 00		340 17			2,831 00
Africa Street.....	13 45	367 44		20 00	184 76		115 65				50	701 90
Aldrich Street.....	38 63	0 95			7 45		62 84					117 97
Almy Street.....	4 50	9 62	30		9 55		21 05		90			35 40
Althea Street.....	3 75	68 00	11 50	12 75	62 45		10 63		91			170 41
Amherst Street.....	3 82	6 55	15 15	15 15	66 66		29 35		90			60 15
America Street.....	36 61	5 01	15	62 55	1 50		334 20			\$7 25	6 90	444 17
Arnold Street.....	4 11	283 63	1 05		82 60	\$2 60	82 16	49 25	3 80			507 54
Atwell's Avenue.....	95 73	86 62			91 98		47 71	13 00	4 90			343 41
Beacon Avenue Primary.....	2 50	2 62			59 84		18 40		91			43 37
Beacon Avenue K. & C.....	112 06	2 57			18 82		185 38		102 94	1 81	4 45	586 39
Bellefleur Avenue.....	155 87	199 45			69 10		104 15	26 62	3 80			470 83
Benett Street.....	8 13	206 81	10		43 79		14 65		90			188 85
Berkshire Street.....	81 50	10 58		14 25	14 48	33 70	34 00		90			190 28
Berkshire Street.....	13 10	1 57	68		21 50		31 45		90			75 18
Bourn Street.....	21 85	96 00	12 88		142 25	11 68	58 63		3 60		15 52	362 42
Branch Avenue Grammar.....	2 50				4 10		40 54					47 79
Branch Avenue Primary.....	92 02	27 50	65	12 55	72 91		141 40	33 75	9 05		58 72	447 99
Brigham Street.....	3 94	1 50		15 64	60 65		51 31	30 49	3 60		149 97	323 10
Broad Street Grammar.....											8 60	8 60
Burnside Street.....	5 75	10 80			23 00		80 55		146 75			266 91
California Avenue.....	2 50	3 30			22 10		39 22		57 44			117 56
California Avenue.....	55 11	21 30			15 05		3 80		3 80			98 98
Camp Street.....							9 75 00		293 30	81 25		1,000 18

Daniel Avenue.....	9 62	130 22	25	7 45	245 23	14 20	20 50	13 23	55 12	191 24
Doyle Avenue.....	109 05	153 28	18 82	38 28	9 10	41 99	13 23	3 89	137 08	1 074 69
East Street.....	3 75	102 62	15	15	21 30	17 81	3 89	89	278 68	137 08
Kady Street.....	15 40	114 97	15	22 70	107 41	106 85	192 98	89	537 50	537 50
Elmwood Avenue.....	22 63	186 54	52	22 70	221 62	442 37	5 97	5 97	742 80	742 80
Elmwood Avenue.....	37 91	5 41	50	76 03	13 84	7 35	1 80	1 80	161 25	161 25
Federal Street Primary.....	3 95	133 81	2 23	76 03	106 90	156 99	231 05	3 00	1 425 96	1 425 96
Friendship Street.....	497 43	337 15	1 66	2 35	55 15	91 85	34 18	3 00	182 35	182 35
Graham Street.....	28 00	13 67	1 66	2 35	172 80	19 65	4 50	3 80	244 77	244 77
Greeley Street.....	27 73	20 90	90	212 00	29 28	44 18	2 70	30 96	358 54	358 54
Grove Street.....	9 10	8 55	11 70	212 00	29 28	10 25	39 06	35 07	143 01	143 01
Hammond Street.....	5 45	4 70	11 70	212 00	29 28	9 65	8 16	24 55	98 36	98 36
Harris Avenue.....	62 30	137 75	2 78	25 50	25 30	136 46	3 25	1 80	387 31	387 31
Hendrick Street.....	12 77	390 50	2 78	25 50	71 67	17 14	3 25	2 25	406 66	406 66
Highland Avenue.....	82 86	132 01	2 78	111 95	31 30	44 59	1 80	2 25	112 01	112 01
High School (English).....	42 91	18 00	2 85	68 22	120 42	11 80	213 65	69 31	629 83	629 83
High School (Classical).....	55 99	327 37	55 72	27 38	340 26	1 75	9 00	219 41	496 96	496 96
High School (Eng. & Classical).....	124 25	370 39	59	10 40	174 80	69 29	10 00	119 49	1 637 78	1 637 78
Hospital Street.....	98 98	37 23	5 25	14 87	14 16	75 09	3 80	1 30	889 01	889 01
Ives Street.....	35 73	101 71	2 17	19 28	44 30	8 00	3 80	1 30	225 37	225 37
Kelley Street.....	21 75	90 76	1 00	20 20	2 70	177 84	3 80	1 30	338 56	338 56
Killingly Street.....	195 57	80 76	1 00	20 20	12 85	22 11	4 50	5 80	80 00	80 00
Manning Street.....	2 98	17 43	80	6 30	32 69	134 33	3 80	5 80	433 66	433 66
Manton Avenue.....	8 40	13 46	80	6 30	35 45	276 95	5 40	35 92	382 68	382 68
Manual Training High School.....	13 75	131 24	40 87	14 87	376 62	119 12	2 69	262 16	943 78	943 78
Messer Street.....	18 75	44 07	2 67	14 87	145 05	172 28	2 69	11 50	442 13	442 13
Meeting Street.....	68 28	21 35	1 06	611 98	322 66	25 75	5 00	17 52	581 05	581 05
Montague Street.....	149 79	26 33	1 06	611 98	115 57	15 95	5 00	20 40	925 75	925 75
Mount Pleasant Avenue.....	100 35	24 73	1 06	611 98	115 57	15 95	5 00	20 40	237 29	237 29
Mount Pleasant Ave. (Special).....	2 50	234 79	20	55 55	2 00	128 49	91	15 30	269 23	269 23
Niagara Street.....	5 00	132 62	2 85	304 34	475 64	396 26	1 80	163 82	1 566 30	1 566 30
Orms Street (Special).....	292 18	328 66	35 53	304 34	205 21	97 76	23 62	1 80	1 123 63	1 123 63
Oxford Street.....	129 31	191 24	35 53	304 34	12 70	32 71	37 00	4 91	46 66	46 66
Pallas Street.....	1 25	81 38	5 30	4 80	76 59	167 30	37 00	10 50	414 73	414 73
Peace Street.....	26 95	84 33	5 80	90 77	436 77	299 06	1 80	34 70	1 061 43	1 061 43
Point Street.....	18 44	101 38	5 80	90 77	69 75	121 78	7 30	6 53	318 65	318 65
Plain Street.....	13 44	101 38	5 80	90 77	69 75	121 78	7 30	6 53	318 65	318 65
Potter Avenue.....	9 23	9 88	15 47	15 47	80 50	38 30	7 30	6 53	192 96	192 96

TABLE OF EXPENDITURES ON SCHOOL HOUSES.—(Continued.)

NAMES.	Carpenters' Labor and Stock.	Painters' Labor and Stock.	Hardware and Iron Work.	Masons' Work, Plastering and Drainage.	Plumbing and Roofing.	Gas Pipe Fitting and Fixtures.	Heating and Ventilating.	Blackboards.	Grading, Concrete and Lot Improvements.	Removing Night Soil and Drayage.	Electric Work and Miscellaneous.	Total.
Public Street.....	\$6 74	\$75 95	.....	.....	\$37 74	.....	\$175 88	\$3 00	\$1	.....	.....	\$290 52
Putnam Street.....	5 72	22 33	.....	\$106 39	189 19	.....	284 09	.....	89 60	.....	.....	637 82
Ralph Street.....	1 25	.....	.....	.....	31 60	.....	30 05	.....	.....	.....	\$19 92	82 82
River Avenue.....	11 92	13 85	.....	.....	35 03	.....	39 04	.....	89	.....	.....	140 33
Roosevelt Street.....	12 23	5 38	.....	.....	1 10	.....	11 50	85	3 00	.....	40 19	39 21
Rogert Williams Avenue.....	13 75	2 25	\$21 75	104 01	73 91	.....	117 91	16 00	28 05	.....	.....	378 28
Ruggles Street.....	2 40	215 87	.....	.....	25 44	.....	4 15	.....	1 80	.....	.....	232 01
Sasson Street.....	4 35	30 00	1 00	3 70	60 84	.....	32 17	.....	3 70	.....	.....	133 89
Slater Avenue.....	13 99	111 30	.....	.....	5 30	.....	41 30	.....	3 80	.....	.....	57 80
Smith Street.....	24 18	190 14	.....	34 75	329 63	.....	37 49	.....	30	.....	.....	500 03
Somerset Street.....	239 83	278 45	1 60	.....	162 63	\$50 14	45 35	18 75	30	.....	.....	115 99
Summer Street.....	19 49	31 32	.....	.....	60 92	.....	52 16	.....	3 80	.....	.....	129 23
Thayer Street.....	20 25	71 12	1 30	.....	87 28	.....	12 80	14 75	85 87	.....	.....	470 61
Thayer Street Grammar.....	18 89	53 58	.....	.....	296 72	.....	56 30	11 00	3 00	.....	.....	105 52
Thurber's Avenue.....	14 08	140 00	.....	.....	2 30	.....	7 95	.....	3 00	.....	4 40	187 52
Vazie Street.....	27 83	14 33	1 40	.....	35 05	.....	26 00	46 00	3 00	.....	.....	504 82
Vineyard Street.....	1 25	6 00	.....	22 48	84 70	.....	242 74	12 00	1 80	.....	.....	172 90
Warren Street.....	8 11	71 68	.....	.....	84 04	.....	412 69	61 47	5 80	\$1 81	1 20	335 27
Webster Avenue.....	3 75	135 70	30	16 24	.....	.....	11 15	.....	.....	.....	.....	226 08
Willard Avenue.....	51 47	43 69	4 18	23 38	94 14	.....	154 67	.....	3 60	.....	.....	63 40
Willow Street.....	12 25	.....	.....	.....	202 36	.....	225 55	.....	31 66	10 88	.....	453 11
Totals.....	\$5,759 69	\$8,107 19	\$255 10	\$3,301 96	\$9,021 71	\$157 23	\$12,062 45	\$676 85	\$2,005 64	\$118 30	\$1,721 92	\$43,308 10

NAMES.	Total.										
	Carpenters' Labor and Stock.	Painters' Labor and Stock.	Hardware and Iron Work.	Masons' Work, Plastering and Drainage.	Plumbing and Roofing.	Gas Pipe Fitting.	Heating and Ventilation.	Grading, Concreting and Lot Improvements.	Removing Night Soil and Drayage.	Electric Work and Miscellaneous.	Total.
Fire Station No. 1, Exchange Place.....	\$254 95	\$149 42	\$58 38	.....	\$15 37	\$35 96	\$39 46	.....	\$38 50	\$121 50	\$773 54
Fire Station No. 2, South Main Street.....	62 60	36 32	4 00	.....	15 83	.....	5 05	.....	.....	.....	113 80
Fire Station No. 2 (old), South Main Street.....	14 50	1 97	.....	.....	110 45	.....	.....	.....	.....	.....	126 92
Fire Station No. 3, Pond Street.....	29 25	1 50	3 60	.....	30 70	.....	9 47	.....	.....	.....	78 52
Fire Station No. 4, Mill Street.....	40 31	13 88	3 30	15 36	119 90	.....	19 74	.....	.....	.....	212 39
Fire Station No. 5, Hope and Olney Streets.....	57 06	436 45	3 30	33 00	121 94	11 00	36 50	.....	.....	7 16	663 52
Fire Station No. 6, Benevolent Street.....	.....	.....	.....	.....	30 33	.....	28 83	.....	.....	.....	59 16
Fire Station No. 7, Richmond Street.....	66 75	23 95	1 20	.....	67 87	1 25	31 35	.....	.....	.....	192 97
Fire Station No. 8, Harrison Street.....	142 82	12 18	1 16	.....	37 31	11 50	129 63	.....	.....	.....	334 60
Fire Station No. 9, Atwell's Ave. and America St.	415 71	462 74	17 25	25 85	21 60	32 75	37 36	.....	.....	.....	960 56
Fire Station No. 10, Burnside Street.....	815 21	269 61	19 18	156 18	181 33	43 68	32 75	\$43 15	27 00	.....	1,618 13
Fire Station No. 11, Greenwich Street.....	23 45	187 48	.....	.....	39 25	.....	62 61	.....	.....	.....	132 79
Fire Station No. 12, Smith and Orms Streets.....	175 88	7 48	36 21	153 38	4 25	.....	34 86	20 85	3 70	46 33	662 45
Fire Station No. 13, Central Street.....	11 86	22 25	.....	.....	21 34	.....	5 60	.....	.....	.....	61 07
Fire Station No. 14, Putnam Street.....	30 68	7 60	50	.....	.....	.....	15 34	.....	.....	.....	54 11
Fire Station No. 15, Wickenden Street.....	236 24	193 14	24 36	.....	45 76	4 90	19 85	.....	.....	25 00	549 25
Fire Station No. 16, Branch Avenue.....	107 71	445 46	.....	56 00	8 76	.....	1 70	327 12	.....	.....	932 75
Fire Station No. 17, No. Main St. and Doyle Ave.	273 54	307 04	2 70	88 73	14 90	6 83	16 23	69 68	.....	.....	709 65
Fire Station No. 18, Broad Street.....	27 25	7 63	1 85	.....	106 08	.....	26 24	.....	.....	.....	109 05
Fire Station No. 19, Plainfield Street.....	63 53	43 49	.....	.....	1 15	.....	4 35	.....	.....	.....	112 52
Fire Station No. 20, Mantion Avenue.....	384 66	29 55	2 09	.....	27 35	3 87	42 80	.....	.....	.....	401 00
Fire Station, Haymarket Street.....	33 85	8 88	44	.....	.....	.....	38 79	.....	.....	.....	81 96
Hook and Ladder No. 3, Douglas Avenue.....	7 3	11 25	.....	.....	43 55	.....	20 07	.....	.....	16 94	96 14
Hook and Ladder No. 4, Wickenden Street.....	22 30	18 29	.....	.....	30 10	.....	5 95	.....	.....	.....	68 54
Hook and Ladder No. 5, Public and Burnside Sts.	10 59	2 62	.....	.....	37 40	.....	18 68	.....	.....	.....	69 49
Hook & Ladder No. 8, Laurel Hill Ave. & Laban St.	17 34	7 72	.....	.....	.....	.....	20 45	.....	.....	32 40	77 81
Fire Department, Bell Tower.....	.....	.....	.....	.....	.....	.....	.....	126 70	.....	.....	126 70
	\$3,315 23	\$2,752 30	\$176 52	\$528 40	\$1,133 12	\$119 08	\$770 71	\$577 50	\$68 20	\$249 33	\$9,070 39

TABLE OF MISCELLANEOUS BUILDINGS.

NAMES.	Carpenters' Labor and Stock.	Painters' Labor and Stock.	Hardware and Iron Work.	Masons' Work, Plastering and Drainage.	Plumbing and Roofing.	Gas Pipe Fitting and Fixtures.	Heating and Ventilation.	Electric Work and Miscellaneous.	Total.
Keeper's House, Red Bridge.....	\$1 25								\$1 25
Ward Room Building, Beacon Avenue.....	5 00	\$2 33			\$21 61		\$6 40		35 34
Ward Room and School Building, Harrison Street.....			\$ 70		28 17		27 28		61 15
Ward Room Building, Pallas Street.....							12 53		12 53
Ward Room and Evening School Building, Academy Avenue.....	27 74	2 83	10 50	\$146 88	29 10		141 73		368 78
Store House and Work Shop, Henderson Street.....	77 28						167 60	\$57 31	302 19
Poor Department Buildings, Eddy Street.....	291 65	33 22	2 75	34 39	19 50	\$8 29	50 00	33 12	472 83
Field's Point Hospital.....		2 40						2 35	4 75
Central Police Station (old), Canal Street.....	65 29	191 01	1 70	16 80	46 40		60 45		382 55
Bath Houses.....	121 29	5 24	40 47						168 90
	\$504 50	\$527 83	\$50 12	\$197 98	\$144 78	\$9 29	\$465 90	\$92 78	\$1,708 27

RECAPITULATION OF EXPENSES.

NAMES.	Carpenters' Labor and Stock.	Painters' Labor and Stock.	Hardware and Iron Work.	Masons' Work, Plastering and Drainage.	Plumbing and Roofing.	Gas Pipe Fitting and Fittings.	Heating and Ventilation.	Blackboards.	Grading, Concreteing and Lot Improvements.	Removing Night Soil and Drayage.	Electric Work and Miscellaneous.	Total.
School Buildings.....	\$5,759 69	\$8,107 19	\$255 16	\$3,391 96	\$9,021 71	\$157 23	\$12,062 45	\$676 85	\$2,095 64	\$118 30	\$1,721 92	\$43,368 10
Fire Department Buildings.....	3,315 23	2,782 30	176 52	528 40	1,133 12	119 08	770 71	.....	577 50	08 20	249 33	9,670 39
Miscellaneous Buildings.....	594 50	237 83	56 12	197 98	144 78	8 29	405 99	.....	.....	.....	92 78	1,798 27
Total.....	\$9,670 84	\$11,077 32	\$477 80	\$4,118 34	\$10,299 61	\$284 00	\$13,299 15	\$676 85	\$2,673 14	\$186 50	\$1,985 98	\$54,836 76

The following bills and items in bills were allowed in committee, and paid for from the appropriation for public buildings, and are not properly chargeable to any building:

Paid for removal of ashes, rubbish, and cleaning cesspools and vaults from the several public buildings	\$2,310 26
“ for Superintendent’s bond...	7 50
“ for painting flagpole and renewing halcyards at Prospect Terrace	28 24
“ for car fares, carpenters’, painters’, postal cards, etc...	228 75
“ Prov. Telephone Co., rent of telephone from March 1, 1903, to March 1, 1904, Superintendent’s office and city yard	185 00
“ for office supplies, including ledger, directories, envelopes, etc.	61 19
“ for sealing city scales.....	3 00
“ for repairing Smith Premier typewriter	10 50
“ freight on window glass, etc.	4 74
“ for advertising Mount Pleasant Avenue Fire Station....	38 80
“ for labor, pay roll and lumber for fencing Summer Street property	38 11
Amount carried forward.....	\$2,916 09

Amount brought forward.....	\$2,916 09
Labor pay roll and stock, repairing City Weigher's building and scales.....	52 42
Labor in taking out pipe, etc., old Central Fire Station....	8 00
Labor pay roll, fencing cowlands	5 00
City of Providence, blacksmith, harness work, and board one horse.....	341 08
for boarding Superintendent's, foreman's, and team horses, shoeing horses, and repairing buggy, wagons, and harnesses	753 38
Henry R. Evans, Superintendent, from Jan. 1, 1903, to Dec. 31, 1903.....	2,200 00
Louis E. Cady, salary from Jan. 1, 1903, to Dec. 31, 1903	1,300 00
John E. Spencer, foreman, salary from Jan. 1, 1903, to Dec. 31, 1903	1,092 00
Robert A. Walker, teamster, from Jan. 1, 1903, to May 23, 1903	206 00
Jefferson Davis, teamster, from June 20, 1903, to July 25, 1903	47 75
Seymour C. Brown, teamster, from Oct. 10, 1903, to Dec. 31, 1903	140 00
Amount carried forward.....	<u>\$9,061 72</u>

Amount brought forward.....	\$9,061 72	
Paid Desmond Fitzgerald and R. I. Hospital Trust Co., trustee; Orman E. Fitzgerald, agent, rent of land on South Main Street	275 00	\$9,336 72
		<hr/>
Add amount as per tables.....		54,836 72
		<hr/>
		\$64,173 44

SPECIAL WORK.

The extraordinary expenses of this department are those of the erection of new buildings, additions to old, and such improvements as are made from time to time, by order of the City Council. During the past year the statement of account is as follows:

The buildings below enumerated are in process of erection and have been completed under the direction of the Joint Building Committee on City Property, and paid for from special appropriation for schoolhouses and lots. Loan account:

WEBSTER AVENUE AND DORA STREET SCHOOL BUILDING.

for construction	\$252 72	
during the year.....	\$252 72	\$252 72
as per last report.....	\$28,610 89	
cost for construction and furnishing	\$28,863 61	

CHALKSTONE AVENUE SCHOOL BUILDING.

for construction	\$318 50	
for furnishing	1,018 00	
during the year.....	\$1,336 50	\$1,336 50
as per last report.....	35,357 85	
cost for construction and furnishing	\$36,694 35	
amount carried forward.....		\$1,589 22

Amount brought forward.....		\$1,589 2
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RALPH STREET SCHOOL BUILDING.

Paid for construction	\$312 50	
“ for furnishing	942 00	
	<hr/>	
“ during the year.....	\$1,254 50	\$1,254 5
“ per last report.....	\$33,199 91	
	<hr/>	
Total cost for construction and furnishing	\$34,454 41	

The buildings below are in process of erection under the direction of the Joint Standing Committee on City Property and paid for from a resolution of the City Council providing for the issue of notes for the fire department purposes:

CENTRAL FIRE STATION, EXCHANGE PLACE.

Paid for construction	\$28,152 28	
“ for furnishing	591 94	
	<hr/>	
“ during the year.....	\$28,744 22	\$28,744 2
“ as per last report.....	132,389 95	
	<hr/>	
“ for construction and furnish- ings to date.....	\$161,134 17	

Transferred to Contingencies.

FIRE STATION, JUNCTION SMITH AND ORMS STREETS.

Paid for construction	\$1,736 39	
“ for furnishing	873 35	
	<hr/>	
Amount carried forward.....		\$31,587 9

Amount brought forward.....		\$31,587 94
Expenses during the year.....	\$2,609 74	2,609 74
Balance as per last report.....	7,390 26	
<hr/>		
Cost of construction and furnishing	\$10,000 00	

MOUNT PLEASANT AVENUE FIRE STATION.

Expenses for construction	5,197 94	
<hr/>		
Expenses during the year.....	\$5,197 94	5,197 94
<hr/>		
Expenses for construction to date.....	\$5,197 94	

The Joint Standing Committee on City Property are authorized to sell at public auction or private sale, the building at the easterly end of Exchange Place, now occupied by the Fire Department, commonly called the "Three Fire Station; expense attending sale of said building charged to the appropriation for contingencies:

Providence Journal Co.....	\$15 00	
George H. Burnham.....	13 00	
<hr/>		
Cost of sale.....	\$28 00	\$28 00
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Amount carried forward.....		\$39,423 62

Amount brought forward.....		\$39,423 62
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NEW CENTRAL FIRE STATION ON EXCHANGE PLACE.

Furnishing, concreting, sidewalks, building driveways, and grading and concreting yard in rear of said station; to be charged to the appropriation for contingencies:

Paid for concreting, building drive-			
ways, curbing, iron fence, etc.	\$1,922 89		
" for furnishing	2,979 75		
" during the year.....	\$4,902 64	\$4,902 64	
Total cost of concreting and fur-			
nishing	\$4,902 64		
Transferred from page 20.....	161,134 17		
Total cost of construction and fur-			
nishing	\$166,036 81		
		\$44,326 26	
Amount as per tables and general			
account		\$64,173 48.	
Total expenditures for year, 1903..		\$108,499 74	

PUBLIC BUILDING DEPARTMENT.

(Under Control of Superintendent.)

One horse and harness.....	\$180 00
One horse and harness.....	100 00
One horse and harness.....	75 00
One harness	20 00
One Concord buggy	15 00
One top buggy	25 00
One top buggy	10 00
One express wagon	15 00
One set bob runners.....	10 00
Two fur robes	40 00
One lumber reach	35 00
One sleigh	15 00
Three street blankets	5 00
Three street blankets.	2 00
Two plush robes	2 00
	<hr/>
	\$549 00

CARPENTERS' STOCK.

Furnace castings	\$160 00
Lumber	94 80
Nails and spikes.....	15 00
Ten side irons.....	44 66
Sponges	50 00
Three dozen brackets.....	6 67
300 gross screws.....	45 00
Jack, wood and clamp screws....	10 00
Stoves and pipes	20 00
Shovel, hoe and rake.....	5 00
Crosscut saw	4 00
	<hr/>
Amount carried forward.....	\$455 13

Amount brought forward.....	\$455 13	
Vise and augers.....	8 00	
Boring machine	6 00	
One pair cutting shears.....	5 00	
Three iron bars.....	2 00	
Miscellaneous tools and hardware.	150 00	
Grindstone and frame.....	12 00	
Sand paper	5 00	
		<hr/>
		\$643 13

PAINTERS' STOCK.

White lead	\$65 00	
Window glass	373 00	
Spar varnish	35 00	
Colors	42 00	
Metallic paint	22 00	
Shellac	128 00	
Paint brushes	50 00	
Ten gallons slating	30 00	
Asphaltum varnish	12 50	
Four sets of trusses.....	72 00	
Paint pots and cans.....	5 00	
Platform scales	5 00	
Staging, ladders and steps.....	75 00	
Glaziers' diamonds	5 00	
		<hr/>
		\$919 50

SUPPLIES IN STOREROOM.

5 sweeping brushes	\$6 60	
2 mop sticks	50	
30 long handle brushes.....	11 70	
4 rakes	1 26	
50 gas globes	7 00	
		<hr/>
Amount carried forward.....	\$27 06	

Amount brought forward.....	\$27 06	
2 waste baskets	1 20	
100 feet of hose.....	10 50	
90 pounds of cement.....	4 50	
2 stove shovels	24	
12 wall brushes	17 50	
6 hoes	2 28	
2 ice picks	70	
193 pounds manilla rope.....	22 70	
50 weather strips	2 00	
3 coal hods	21	
8 snow shovels	2 48	
10 brooms	2 50	
24 door knobs	4 60	
3 lanterns	1 50	
18 mortise locks	4 50	
		<hr/>
		\$103 87

CITY'S HAY SCALES.

Hay scales located on Canal Street, valued at	\$450 00	
Building for City Weigher, valued at	50 00	
Desk, stove, and three chairs.....	5 00	
		<hr/>
		\$505 00

FLAGSTAFFS.

Flagstaff on Prospect Terrace.....	\$200 00	
" at Junction Smith and Jefferson Street	200 00	
" on Trinity Square	350 00	
" on Burgess Square.....	750 00	
" on Dexter Training Ground	650 00	
		<hr/>
		\$2,150 00

BATH HOUSES.

Two floating bath houses, valued at \$500 00

PUBLIC MONUMENTS.

Equestrian statue of Major-General Ambrose E. Burnside, located on Exchange Place, received by the City of Providence, July 4, 1887.

Bronze statue of Thomas Arthur Doyle, located on Cathedral Square, received by the City of Providence, June 3, 1889.

Bronze statue of Ebenezer Knight Dexter, located on Dexter Training Ground, received by the City of Providence, June 29, 1894.

SUMMARY.

Stable expense	\$549 00	
Carpenters' stock and tools.....	643 13	
Painters' stock and tools.....	919 50	
Supplies in storeroom.....	103 87	
Bath houses	500 00	
City scales	505 00	
Flagstaffs	2,150 00	
	<hr/>	\$5,370 50

RECEIPTS FROM PROPERTY SOLD.

Edwin A. Briggs, old Central Fire Station building	\$875 00	
Carlos F. Hunt, one flagpole.....	7 00	
Charles E. Smith, one flagpole....	5 00	
George E. Baker, one slate black- board	2 25	
H. R. Durfee, one house, No. 12 Summer Street	27 50	
Gardiner M. Burgess, one house, No. 16 Summer Street.....	145 00	
Gardiner M. Burgess, one house, No. 18 Summer Street.....	455 00	
Edwin A. Briggs, one house, No. 20 Summer Street	305 00	
N. G. Kingsley, 2 lights glass, Doyle Avenue School	1 20	
	<hr/>	\$1,822 95

1904.]

CITY DOCUMENT.

[No. 4.]

EIGHTY-FOURTH
QUARTERLY REPORT

OF THE

Department of Public Works

OF THE

CITY OF PROVIDENCE, R. I.

QUARTER ENDING DECEMBER 31, 1903.



The Providence Press
SNOW & FARNHAM, CITY PRINTERS,
63 Washington Street.
1904.

REPORT.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS, }
CITY HALL, PROVIDENCE, R. I., January 1, 1904. }

TO THE HONORABLE THE CITY COUNCIL:

In compliance with the requirements of Chapter 41 of the ordinances, the Commissioner of Public Works respectfully presents the eighty-fourth quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending December 31, 1903.

WATER WORKS.

December 11th, the proposal of the Phillips Lead and Supply Company to furnish 9,000 pounds of $\frac{5}{8}$ -inch lead pipe at \$4.90 per hundred pounds delivered in the city yard, was accepted.

December 11th, the proposal of The L. H. Tillinghast Supply Company to furnish and deliver in the city yard 9,000 pounds of $\frac{5}{8}$ -inch lead pipe at \$4.90 per hundred pounds, was accepted.

December 11th, the proposal of The Congdon & Carpenter Company to furnish and deliver in the city yard 8,000 pounds of pig lead at \$4.42 $\frac{1}{2}$ per hundred pounds; and one pig of tin at twenty-seven and 50-100 dollars (\$27.50) per hundred pounds, was accepted.

December 11th, the proposal of the Miller Iron Company to furnish and deliver in the city yard 8,000 pounds of pig lead at \$4.42 $\frac{1}{2}$ per hundred pounds, was accepted.

December 11th, the proposal of John W. Lyon to furnish taps, stops and plugs of various sizes was accepted, and a contract subsequently executed. Amount, \$1,239.55.

December 14th, the proposal of the Coffin Valve Company to furnish fire hydrants and water gates was accepted, and a contract subsequently executed. Amount, \$4,590.50.

December 15th, the proposal of the Fuller Iron Works to furnish special castings for the water and sewer departments for the year 1904 was accepted, and a contract entered into.

The average daily consumption of water during the last quarter was 13,488,330 gallons, and the average daily consumption for the year 1903 was 13,114,614 gallons.

Water pipes were laid during the quarter as follows :

12-INCH.	
In Merino avenue.....	712.47 feet.
8-INCH.	
In Houghton street; and in Reservoir avenue in the town of Cranston.....	677.07 feet.
6-INCH.	
In Caswell and Dayton courts and Roger Williams park; Augusta, Bowlet, David, Dunford, Eames, Edith, Elgin, Herschel, Moorefield, Oppen, O'Connell, Stansbury, Tell and Weymouth streets; Alumni, University and Wayland avenues; in Henry, Noble and Narragansett streets; Edgewood, Germania, Pontiac and Westwood avenues in the town of Cranston; and in Vermont street in the town of Johnston.....	7,761.85 feet.
Total.....	9,151.39 feet.
or 1.733 + miles.	

Water pipes were removed during the quarter as follows :

From Merino avenue.....	711.77 feet.
or .134+ mile.	

Statement of sizes and lengths of pipe laid since the commencement of the work :

36-inch	10,084.00 feet.
30-inch	61,328.30 feet.
24-inch	43,758.29 feet.
20-inch	9,626.59 feet.
16-inch	33,812.95 feet.
12-inch	104,991.24 feet.
10-inch	15,057.14 feet.
8-inch	290,709.91 feet.
6-inch	1,231,296.47 feet.
Total.	1,800,664.89 feet.

or, 341.035 + miles.

Statement of sizes and lengths of pipe laid for the special water service for fire protection since the commencement of the work :

24-inch	4,188.58 feet.
16-inch	23,004.37 feet.
12-inch	2,215.76 feet.
Total.	29,408.71 feet

or, 5.569 + miles.

Eleven fire hydrants have been set during the quarter, one in each of the following locations :

Augusta street, north side, 2 feet east of Wainwright street.
 Bath street, east side, 6.7 feet south of West Park street.
 Jewett street, north side, 330.5 feet west of Bath street.
 Opper street, east side, 3.5 feet north of Branch avenue.
 Pontiac avenue, Cranston, east side, 23.5 feet south of Park avenue.
 Rosedale street, north side, 344 feet east of Ellery street.
 Tucker avenue, Cranston, south side, 608 feet west of Broad street.
 University avenue, north side, 209 feet west of Slater avenue.
 University avenue, north side, 194 feet east of Elmgrove avenue.
 Weymouth street, east side, 22.5 feet north of Lloyd avenue.
 Weymouth street, east side, 214 feet south of Alumni avenue.

The total number of fire hydrants, exclusive of those for special service for fire protection, is now nineteen hundred and eighty-nine—eighteen hundred and eighty-six flush, and one hundred and three post.

The total number of fire hydrants on the special water service for fire protection is ninety-two.

During the quarter, two hundred and forty-eight water meters were set, of which number sixty-four were to replace other meters. The use of sixteen meters was discontinued.

The following meters were in use at the close of the quarter :

KIND.	SIZE.									Total.
	$\frac{1}{4}$ -in.	$\frac{1}{2}$ -in.	1-in.	1 $\frac{1}{2}$ -in.	2-in.	3-in.	4-in.	6-in.	8-in.	
Ball & Fitts.....	2,157	440	103	11	5					2,716
Ball & Fitts, rotary.....			4	7		2	1			14
Crown.....	9,359	1,085	321	139	37	24	25	1		10,991
Empire.....	932	134	61	45	13	1	1			1,187
Fales, Jenks & Sons.....			1							1
Gem.....					13	28	16	3		60
Thomson.....	4,173	424	75	53	22	7	7	2		4,763
Trident.....	102		1							103
Venturi.....									1	1
Worthington.....	1				1					2
	16,724	2,083	566	255	91	62	50	6	1	19,838

One plumber's license was issued during the quarter, making the total number one hundred and thirty-two, all of which expire December 31, 1903.

Six hundred and eighty-six permits to do plumbing work were issued during the quarter.

One hundred and fifty applications for water were made during the quarter, making the total number December 31, 1903, twenty-six thousand eighty-four.

The number of new service stops opened during the quarter was one hundred and forty-nine.

The total number of service stops opened to December 31, 1903, inclusive, was twenty-five thousand four hundred and twenty-two. The number in actual use December 31, 1903, was twenty-three thousand three hundred and thirty-two.

The following is a list of drinking troughs supplied with water by the Providence water works, viz. :

Academy avenue, north of Chalkstone.
Angell street, junction of South Angell.
Atwells avenue, junction of Harris.
Bassett street, off Hospital.
Branch avenue and Abbott street.
Broad street, junction of Eddy.
Broadway, junction of Westminster street.
Canal street, near Linard.
Charles street, corner of Ormsbee avenue.
Charles street and Branch avenue.
Chalkstone avenue, junction of Manton.
Dexter street, near Dufée.
Dorrance street, near Exchange place.
Douglas avenue and Chalkstone.
Douglas avenue and Admiral street.
Dyer street, near Crawford street bridge.
Dyer street, junction of Eddy.
Elmwood avenue and Public street.
Federal street, junction of Kenyon.
Fountain street, junction of Carpenter.
Hartford avenue, junction of Killingly street.
Manton avenue, junction of Atwells.
Miller avenue (Roger Williams park).
North Main street, junction of Benefit.
Olneyville square.
Plainfield street, junction of Pocasset avenue.
Prairie avenue, junction of Broad street.
Point street, junction of Friendship.
Point street, near the bridge.
Potters avenue, corner of Cranston street.
Randall square.
Reservoir avenue, junction of Pontiac street.
Rochambeau avenue, east of Blackstone boulevard.
Smith street, junction of Chalkstone avenue.
South Main street, junction of Wickenden.
Thayer street, junction of Hope.
Trinity square.
Waterman street, corner of East River.
Westminster street, junction of Cranston.
Weybosset street, near Mathewson.
Wickenden street, corner of Governor.

TOWN OF CRANSTON.

Cranston street, junction of Phenix road.
Park avenue, corner of Doric.

TOWN OF JOHNSTON.

Manton avenue, near Killey.

The following is a list of street sprinklers ready for use on the Providence water works, viz. :

Aborn street, near junction of Atwells avenue.
America street, near Atwells avenue.
Barton street, corner of Broadway.
Bradford street, near Broadway.
Branch avenue, near junction of North Main street.
Benefit street, foot of Angell.
Benefit street, between North Main and Halsey.
Beacon avenue, near Friendship street.
Broad street, near Gallup.
Broadway, north side, west of Harris avenue.
Camp street, between Cypress and Larch.
Coddington street, near Westminster.
Cranston street, east side of railroad bridge.
Crary street, between Eddy and Hospital.
Cromwell street, near Dexter.
Daniel avenue, near Plainfield street.
Dexter street, opposite Division.
Doyle avenue, near Hope street.
Doyle avenue, near North Main street.
Exchange place, west end.
Ford street, west of Cranston.
Garnet street, near Pine.
Governor street, near Waterman.
Greenwich street, corner Elmwood avenue.
Harris avenue, near Atwells.
Hope street, junction of Thayer.
Hope street, corner of Wickenden.
John street, corner of Benefit.
Knight street, corner of Grove.
Laurel Hill avenue, near Plainfield street.
Linden street, near Broad.
Manning street, near Brook.
Medway street, east of Wayland avenue.
Melrose street, near south corner of burying ground.
Moore street, corner of Broad.
North Main street, corner of Thomas.
North Main street, near Mill.
Olive street, east of Prospect.
Olney street, near Camp.
Orms street, near Ormsbee avenue.

Oxford street, corner of Eddy.
Pocasset avenue, near Plainfield street.
Power street, west of Hope.
Promenade street, west of Gaspee.
Promenade street, west of Holden.
Promenade street, west of Steeple.
Prospect street, corner of Bowen.
Public street, about 200 feet east of Temple.
Reservoir avenue, opposite Atlantic.
Roger Williams park, near Broad street (private).
Salem street, between Potters avenue and Benedict street.
Smith street, near Oakland avenue.
Smith street, near Schaffer.
Smithfield avenue, north of Branch.
Smithfield avenue, north of the Moshassuck river.
Transit street, between South Water and South Main.
Traverse street, corner of Pike.
Washington street, corner of Dean.
Webster avenue, north of Progress.
West Friendship street, near Broad.
Weybosset street, opposite Abbott Park place.
Willard avenue, west of Prairie.
Willow street, west of Messer.
Winter street, near Pond.
Woodland street, near Holden.

The following is a list of drinking fountains, namely :

Atwells avenue, corner of Academy.
Branch avenue, at Charles street.
Benefit street, corner of College.
Canal street, corner of Steeple.
Landace street, corner of Orms.
Cranston street, junction of Westminster.
Davis park.
Dexter street, opposite Division.
Dorrance street, near Exchange place.
Dyer street, corner of Crawford.
Friendship street, at Hayward park.
Jackson street, corner of Westminster.
North Main street, near Mill.
Olneyville square.
Prairie avenue, opposite Comstock.
Point street, corner of Eddy.
Potters avenue, corner of Elmwood.
Randall square.
Roger Williams park, near Betsey Williams cottage.
Roger Williams park, near Elmwood avenue.
Roger Williams park, near the menagerie.
Ship street, corner of Dyer.
Tockwotton park.

Westminster street, corner of Dyer.
Wickenden street, corner of Transit.

SPRINKLER HYDRANTS FOR CAR SPRINKLERS.

Angell street, south side, 90 feet east of Wayland avenue, in sidewalk.
Camp street, east side, 125 feet north of Olney, in sidewalk.
Chalkstone avenue, northeast corner of Fallon, in sidewalk.
Dexter street, west side, 18 feet south of Cranston, in sidewalk.
Eddy street, west side, at Richmond, in street.
Eddy street, west side, 5 feet south of north line of Washington avenue, in street.
Edna street, west side, 16 feet north of south line of car-house.
Elmwood avenue, east side, 85 feet south of Thackeray street.
Hope street, east side, 125 feet north of Barnes, in street.
Manton avenue, west side, 150 feet south of fire station, in sidewalk.
Market square, north side, 24 feet east of Canal street, in street.
North Main street, west side, 182 feet north of White, in street.
North Main street, west side, 17 feet north of Livingstone, in street.
Orms street, south side, 23 feet east of Windsor, in sidewalk.
Randall square, east side, 32 feet north of Randall street, in street.
Richmond street, southwest side, 44 feet southeast of Pine, in sidewalk.
Smith street, southwest side, 360 feet southeast of Hilltop avenue, in sidewalk.
Thurbers avenue, south side, 298 feet east of Broad street, in sidewalk.
Wickenden street, south side, 167 feet west of Brook, in street.
Winter street, east side, 187 feet south of Pond, in sidewalk.

The following table shows the lengths, sizes, etc., of services laid during twenty-seven years, ending December 31, 1903:

YEARS.	LENGTH OF SERVICES IN FEET.										TAPS USED.								STOPS USED.					Service Boxes Used.
	SIZES OF PIPE.										Paving.	Trench- ing.	Totals.	TAPS USED.										
	$\frac{1}{2}$ inch.	$\frac{3}{4}$ inch.	1 inch.	1 $\frac{1}{4}$ inch.	1 $\frac{1}{2}$ inch.	1 $\frac{3}{4}$ inch.	2 inch.	Totals.	$\frac{3}{8}$ in.	$\frac{1}{2}$ in.				$\frac{3}{4}$ in.	1 in.	1 $\frac{1}{2}$ in.	2 in.	To- tal.						
To Dec. 31, 1902.....	9,919.9	231,485.98	21,824.98	4,897.4	3,587.2	457.7	271,773.17	285,865.79	34,911.28	612	13,910	1,656	420	339	16,937	646	14,818	1,371	303	288	17,428	17,924		
1903.....	.....	7,848.9	623.3	59.6	51.	.....	8,582.8	9,018	1,044.	....	474	48	6	7	535	....	490	43	3	5	541	551
Totals...	9,919.9	239,334.88	22,448.29	4,957.	3,638.2	457.7	280,356.97	294,883.79	35,955.28	612	14,384	1,704	426	346	17,472	646	15,308	1,414	306	293	17,966	18,475		

The following table shows the lengths, sizes, etc., of services laid during the year ending Dec. 31, 1903:

MONTHS.	LENGTH OF SERVICES IN FEET.						NUMBER AND SIZE OF TAPS USED.						NUMBER AND SIZE OF STOPS USED.						Service Boxes Used.
	SIZE OF PIPE.				Totals.	Total Length of Trenching.	Total Length of Paving.	$\frac{1}{4}$ in.	$\frac{3}{8}$ in.	1 in.	$1\frac{1}{2}$ in.	$\frac{1}{4}$ in.	$\frac{3}{8}$ in.	1 in.	$1\frac{1}{2}$ in.	Total.			
	$\frac{1}{4}$ in.	$\frac{3}{8}$ in.	1 in.	$1\frac{1}{2}$ in.															
																	$\frac{1}{4}$ in.	$\frac{3}{8}$ in.	
January.....	122.8				122.8	131.	22.	10				10					10	10	
February.....	62.6		31.2		93.8	99.	26.5	5				6	5		1		6	6	
March.....	895.6	8.2		8.2	922	863.	108.5	47	2		1	50	48	1		1	50	51	
April.....	721.8	77.6			799.4	839.	94.	40	9	1		50	42	8			50	51	
May.....	872.4	66.6			939	988.	92.	56	3		1	60	58	3			61	63	
June.....	711.5	61.2		23.2	795.9	832.5	71.5	39	6	1	2	48	42	6		2	50	51	
July.....	824.1	85.2			909.3	954.5	82.	48	6			54	49	6			55	55	
August.....	673.8	88.6	8.2		770.6	812.	83.	41	5	2	1	49	44	5	1		50	52	
September.....	921.2	98.5	20.2	19.6	1,069.5	1,111.5	127.	55	6	1	2	64	55	6	1	2	64	64	
October.....	932.3	85.2			1,017.5	1,071.5	184.	61	6			67	62	6			68	68	
November.....	790.2	32.			822.2	861.	91.	45	3			48	47	1			48	50	
December.....	410.6	20.2			430.8	455.	62.5	27	2			29	28	1			29	30	
Totals.....	7,848.9	623.3	50.6	51.	8,582.8	9,018.	1,044.	474	48	6	7	535	490	43	3	5	541	551	

The following table exhibits the number of service stops opened each month from
the commencement to December 31, 1903:

MONTHS.	1871	1872	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	
January.....	54	33	21	34	55	15	49	9	20	7	17	15	21	17	18	26	7	39	36	39	56	40	29	30	27	30	40	18	24	18	27	26	26	
February.....	47	18	18	7	25	23	18	9	19	3	11	9	10	7	15	7	10	21	25	26	23	24	28	8	28	24	21	7	15	10	18	26	26	
March.....	38	34	63	7	45	32	60	19	46	23	39	11	28	9	24	16	14	19	28	24	28	38	40	27	20	42	46	28	30	24	39	35	35	
April.....	109	109	108	32	108	82	78	52	58	55	49	55	62	48	68	60	38	61	53	73	76	71	76	67	100	70	53	69	47	73	73	60	60	
May.....	224	206	147	162	168	136	95	80	84	66	72	78	62	62	61	70	52	74	66	114	83	91	81	79	98	82	51	73	60	67	52	70	70	
June.....	379	295	151	172	148	114	103	71	109	82	48	64	81	81	59	50	86	59	80	83	103	108	105	100	76	86	61	73	60	96	71	58	58	
July.....	333	261	127	141	158	83	80	49	75	56	77	66	76	77	83	62	89	74	67	86	105	93	80	89	83	59	51	66	44	81	74	59	59	
August.....	224	209	123	83	94	91	51	51	39	58	87	69	61	57	71	49	52	56	76	96	104	115	116	83	64	69	54	80	66	78	62	57	57	
September.....	184	147	139	101	94	80	63	44	37	60	67	93	50	70	59	74	63	64	77	93	114	98	112	70	71	67	53	53	76	72	56	72	72	
October.....	138	135	160	92	84	81	78	79	48	61	56	47	65	62	52	80	70	64	54	104	102	96	85	90	70	62	47	54	65	66	43	58	58	
November.....	100	104	185	86	54	73	57	63	54	37	64	49	51	39	57	69	47	58	72	81	118	80	70	68	52	54	42	45	54	63	55	48	48	
December.....	56	83	45	122	60	35	55	45	29	40	27	56	44	46	28	49	42	53	50	83	102	62	62	57	58	53	47	40	56	44	46	43	43	
Totals.....	56	1863	1506	1304	977	1068	865	777	873	618	548	614	612	611	575	595	612	570	642	684	900	1014	902	984	768	747	698	566	606	597	692	616	612	612

The receipts for water each year since the commencement have been as follows :

Year.	Amount.	Year.	Amount.
1872.....	\$41,003 51	1888.....	\$346,731 58
1873.....	97,386 09	1889.....	377,497 97
1874.....	132,052 39	1890.....	401,140 86
1875.....	165,144 71	1891.....	404,553 84
1876.....	183,868 73	1892.....	409,421 21
1877.....	200,039 39	1893.....	427,546 51
1878.....	218,883 33	1894.....	432,383 97
1879.....	229,551 78	1895.....	471,069 97
1880.....	247,705 06	1896.....	485,187 33
1881.....	280,530 87	1897.....	490,652 47
1882.....	269,318 77	1898.....	502,603 10
1883.....	283,632 89	1899.....	522,124 46
1884.....	302,368 36	1900.....	554,949 62
1885.....	313,561 21	1901.....	578,869 07
1886.....	323,084 67	1902.....	605,307 35
1887.....	339,513 60	1903.....	621,016 74

The amount of bills approved on account of water works from October 1, to December 31, 1903, inclusive, was :

For maintenance, \$44,510 23

Classified as follows :

PETTACONSET PUMPING STATION.

Coal and wood.....	\$7,691 82
Engineers.....	685 45
Sundries.....	652 10
Fireman.....	589 20
Superintendence.....	386 07
Barn expenses.....	304 92
Real estate at Pettaconset.....	150 00

Amount carried forward..... \$10,459 56

Amount brought forward.....	\$10,459 56	
Oil, waste and packing.....	138 18	
Worthington high-duty engine.....	110 81	
Care of grounds.....	96 55	
Repairs on boilers.....	80 63	
Labor on fuel.....	80 50	
Cornish engine house.....	17 20	
Corniss pumping engine and house.....	10 00	
Lights.....	9 94	
		<u>\$11,003 37</u>

SOCKANOSSET RESERVOIR.

Watchman.....	\$188 00	
Sundries.....	32 10	
		<u>220 10</u>

HOPE PUMPING STATION.

Coal and wood.....	\$671 35	
Fireman.....	524 67	
Engineers.....	308 86	
Repairs on boilers.....	256 54	
Sundries.....	120 63	
Lights.....	96 54	
Oil, waste and packing.....	22 29	
		<u>2,000 88</u>

HOPE RESERVOIR.

Watchman.....	\$211 50	
Sundries.....	76 31	
		<u>287 81</u>

FRUIT HILL RESERVOIR.

Sundries.....	\$830 83	
Watchman.....	211 50	
		<u>1,042 33</u>

METER DEPARTMENT.

Water meters.....	\$4,666 13	
Setting and repairing meters.....	1,391 04	
		<u>6,057 17</u>

PIPE LINE AND SERVICE STOPS.

Repairs.....	\$4,610 07	
Superintendence — salaries.....	876 47	
		<u>5,486 54</u>

Amount carried forward.....		<u>\$26,096 20</u>
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REPORT OF THE DEPARTMENT OF PUBLIC WORKS. 17

Amount brought forward..... \$26,098 20

PIPE YARD.

Laying water pipe.....	\$2,683 40	
Stop valves.....	1,417 80	
Laying service pipe.....	1,283 69	
Service pipe.....	897 50	
Special castings.....	459 90	
Pig lead and tin.....	360 36	
Cast iron water pipe.....	213 23	
Labor on and carting pipe.....	132 53	
Tools.....	99 68	
Taps and stops.....	83 22	
Pipe yard, office expenses.....	82 35	
Fire hydrants, boxes and covers.....	47 67	
Repairs on pipe yard buildings.....	1 13	
		7,762 46

MISCELLANEOUS.

Town of Cranston, tax.....	\$7,077 69	
Clerks' and inspectors' salaries.....	1,595 31	
Barn expenses.....	559 96	
Prevention of defilement of the Pawtuxet.....	549 99	
Town of North Providence, tax.....	400 00	
Horses, wagons, harnesses, etc.....	144 29	
Telephone lines.....	138 18	
Car fares.....	75 00	
Real estate at Pawtuxet.....	67 50	
Transferring water service records to card system.....	41 05	
Public drinking fountains and troughs.....	60	
		10,649 57
		\$44,510 23

For construction, \$36,987 35

Charged as follows :

Installation of sand filtration plant at Pettaconset, \$36,987 35.

The total expenditures to December 31,
1903, inclusive, was \$9,597,075 18

The *net* expenditure for maintenance from October 1 to
December 31, 1903, inclusive, was..... \$36,302 60

The *net* expenditure for maintenance to December 31, 1903,
inclusive, was..... \$1,994,759 30

The *net* expenditure for construction from October 1 to De-
cember 31, 1903, inclusive, was..... \$36,987 35

The value of the water works system, January 1, 1903, as estimated by the city engineer, was as follows :

Pettaconset pumping station.....	\$340,694 00	
Hope pumping station	129,405 79	
Sockanosset, Hope and Fruit Hill reservoirs.....	714,047 55	
Main lines and distribution pipes.....	2,726,775 16	
Real estate in Pawtuxet and Lincoln	15,975 00	
Tools and supplies.....	29,875 18	
		<u>\$3,936,772 68</u>

Bills deposited with the city treasurer for collection from October 1 to December 31, 1903, inclusive, amounted to . . . \$77,878 37

As follows :

Water.....	\$70,847 10	
Water meters.....	3,480 25	
Setting and repairing meters.....	1,797 87	
Labor and material, laying services, etc.,	1,522 36	
Rent of real estate	101 75	
Penalties.....	50 00	
Repairs on pipe line	39 04	
Permanently closing service stops.....	35 00	
Use of lead furnace.....	5 00	
		<u>\$77,878 37</u>

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of \$77,327 39

As follows :

Water.....	\$69,069 76	
Water meters.....	3,477 00	
Labor and material, laying services, etc.....	2,424 19	
Setting and repairing meters.....	2,094 60	
Rent of real estate.....	93 00	
Repairs on pipe line.....	70 84	
Penalties.....	50 00	
Permanently closing service stops.....	40 00	
Use of lead furnace.....	5 00	
Repairs on buggy.....	3 00	
		<u>\$77,327 39</u>

SEWERS.

One drain layer's license was issued during the quarter, making the total number one hundred and forty-six, all of which expire December 31, 1903.

During the quarter ending December 31, 1903, two hundred and seventy-two permits were issued to drain layers—one hundred and fifty-six for new work and one hundred and sixteen for extension and repairs of drains.

October 20th, contracts for the construction of the following sewers were awarded and subsequently executed, namely :

[The amounts given below are what are estimated will be paid the contractors for labor, and do not include the cost of inspection and materials.]

TO FREDERICK E. SHAW.

No. of resolution. Date of approval.

322.	Sept. 18, 1903,	<i>Dudley street and the city yard,</i>	\$12,060 60
319.	" " "	<i>Elton street, from a point one hundred feet east of Taber. avenue to Elmgrove</i>	420 80

TO CHARLES CRANKSHAW.

318.	Sept. 18, 1903,	<i>Hilton street and Cali- fornia avenue,</i>	\$1,645 80
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TO FRANK A GAMMINO.

No. of resolution. Date of approval.

320. Sept. 18, 1903, *Vandewater street, from
Douglas avenue to
Branch \$4,393 10*

November 10th, the proposals of the Charles S. Bush Company and Starkweather & Williams Company to furnish prime green copperas during the year 1904 at forty-four cents per hundred pounds, f. o. b. Harbor Junction wharf, were each accepted for one-half the quantity required.

December 17th, the proposal of Edwin D. Allen to furnish sewer pipe and flagstones was accepted and a contract subsequently executed. Amount, \$12,589.22.

December 17th, the proposal of the Smithfield Granite Company to furnish and deliver seventy-five catch-basin inlet stones at \$5.25 each, was accepted.

December 28th, the proposal of Charles M. Kelly to furnish and deliver along the line of the work the Portland cement required during 1904, was accepted and a contract subsequently executed.

December 28th, the proposal of the H. R. Horton Company to furnish and deliver along the line of the work the natural cement required during 1904, was accepted and a contract subsequently executed.

SEWERS CONSTRUCTED TO DECEMBER 31, 1903, IN MILES.

ITEMS	KIND.	Built previous to 1903.	Built during 1903.	Total to Dec. 31, 1903
Under regular appropriation.....	Brick.	37.151	1.161	38.312
Under regular appropriation.....	Pipe.	126.465	3.124	129.589
Under improved sewerage appropriation.....	Brick and Pipe.	26.824	1.552	28.376
Total miles of sewers.....		190.440	5.837	196.277

During the year, 98 catch-basins, 93 extra inlets, and 235 manholes have been built, making a total in use December 31, 1903, of 4,596 catch-basins, 1,503 extra inlets, and 8,401 manholes.

During the quarter, the construction of the following sewers was completed, namely :

No. of resolution.	Date of approval.	Date of completion.
350.	Nov. 6, 1902, <i>Branch avenue, from Douglas to Veazie street,</i>	Oct. 31, 1903.
127.	April 7, 1903, <i>Atwells avenue, Pine and Broad streets,</i>	Nov. 18, 1903.
128.	" " " <i>Merino avenue from Manton to near the Merino bridge,</i>	Dec. 18, 1903.
129.	" " " <i>Weymouth street and Lloyd avenue,</i>	Oct. 17, 1903.
130.	" " " <i>Wayland, Cole and University avenues,</i>	Oct. 17, 1903.

No. of resolution.	Date of approval.	Date of completion.
228.	June 5, 1903, <i>North Main street, east side, from Stenton avenue to Third street,</i>	Nov. 14, 1903.
318.	Sept. 18, 1903, <i>Hilton street and California avenue,</i>	Dec. 4, 1903.
321.	" " " <i>Barnes street, from a low point west of Thayer to connect with Thayer street sewer — storm sewer,</i>	Sept. 29, 1903.

Work upon the following sewers was in progress at the close of the quarter, namely:

No. of resolution.	Date of approval.
136.	April 7, 1903, <i>Section 30, Seekonk Division, Improved Sewerage System.</i>
322.	Sept. 18, 1903, <i>Dudley street, from Pearl and Plain to the head of the city dock.</i>

Work upon the following sewers, completing the work ordered by the city council, had not commenced December 31, 1903, namely:

No. of resolution.	Date of approval.
229.	June 5, 1903, <i>Reservoir avenue, west side, from Crescent street to Algonquin.</i>
230.	" " " <i>West Park and Bath streets.</i>
319.	Sept. 18, 1903, <i>Elton street, from a low point 100 feet east of Taber avenue to Elmgrove.</i>
320.	" " " <i>Vandewater street, from Douglas avenue to Branch.</i>

SEWER MAINTENANCE DEPARTMENT.

The following table shows the work performed by the department cleaning sewers, basins and drains, for the year 1908:

MONTHS.	OLD WORK.						NEW WORK.						Total deposit re- moved, cubic yards.					
	OLD DRAINS.			SAND- CATCHERS.			OPEN DITCHES.			SUMPS.		SEWERS.			CATCH-BASINS.			
	Number.	Length in feet.	Deposit removed, cu. yards.	Number.	Deposit removed, cu. yards.	Length in feet.	Deposit removed, cu. yards.	Number.	Length in feet.	Deposit removed, cu. yards.	Dead Ends.	No. times examined.		Number cleaned.	Deposit removed, cu. yards.			
January.....	.....	.....	.....	.....	.....	.....	20	226.34	1	800	36.23	.....	1	221	140.45	403.02
February.....	.....	.....	.....	.....	.....	.....	2	16.68	2	7,850	68.27	.....	1	261	330.68	415.63
March.....	1	475	10.16	2	725	20.37	14	172.00	72	14,700	36.26	.....	1	771	1,273.18	1,510.97	
April.....	.....	.....	.....	1	1,100	40.74	8	97.59	10	4,700	56.45	.....	1	1,091	1,780.45	1,975.23
May.....	.....	.....	.....	1	1,200	66.67	8	128.81	12	2,800	26.07	.....	1	1,086	2,144.89	2,366.44
June.....	.....	.....	.....	6	1,800	52.79	14	254.00	2	900	6.90	.....	2	1,288	1,552.82	1,866.51
July.....	.....	.....	.....	3	8.00	.....	5	125.92	3	800	13.64	90	1	1,497	1,966.81	2,144.37
August.....	1	175	2.37	9	18.15	.....	6	332.78	1	.....	18.15	.....	1	1,089	1,776.11	2,147.56
September.....	2	350	13.00	.....	.....	.....	7	123.69	48	7,462	37.61	.....	1	1,865	1,717.96	1,892.28
October.....	.....	.....	.....	1	475	12.04	6	72.46	61	21,000	30.26	50	1	1,774	1,735.30	1,849.96
November.....	6	1,275	43.78	.....	.....	.....	7	93.75	41	8,400	22.45	41	1	1,547	1,234.02	1,394.00
December.....	1	150	6.14	3	500	30.44	15	154.26	62	18,600	32.00	.....	2	1,247	1,635.26	1,258.70	
Totals.....	11	2,425	75.45	12	26.15	5,800	112	1,798.28	315	88,012	383.89	181	14	14,836	16,717.83	19,224.65		

In addition to the accompanying form, the following work has been performed by the sewer maintenance department for the year 1903 :

WORK ON SEWERS.

Examined all sewers for condition and deposit, and all gates, slots, and sumps for same forty-eight times ; also fifteen cellars on account of water in them. Repaired eleven holes over sewers, one house connection, fire box at brick station, two tide gates, two gates at precipitation tanks, and repaired and painted three gate houses. Replaced thirty-eight manhole frames and 159 covers, five track grates and one frame. Built one storm sewer 257.52 feet long, eight manholes, and one by-pass to old drain on Canal street. Reset 251 manhole frames. Cut in one five-inch, two eight-inch, ten six-inch and one twelve-inch connection. Put in one six-inch drain ; removed roots from 101 sewers ; brought two manholes to grade ; flushed out pipe in line-house at precipitation tanks twice, and one six-inch pipe at Doyle avenue and Camp street four times ; puddled one ditch and abandoned two chutes.

WORK ON BASINS.

Flushed 2,799 traps and 1,896 chutes to basins. Built five basins and six chutes. Thawed out ten chutes. Cleaned snow from 2,703 inlets. Repaired twenty-four holes at basins, forty-nine basins, twenty chutes, and six basin connections. Replaced eighteen basin covers ; abandoned one basin ; reset fifty-two traps ; put in three extra inlet frames and covers and eighteen extra traps.

OLD WORK.

Repaired sixteen old drains and five chutes. Levelled ten dumps and built five chutes.

MISCELLANEOUS WORK.

Flushed seventy-seven private connections, charged \$183.75 ; ten sewers and pumped out one, \$168.17 ; thawed out one pipe for health department, \$2.75 ; pumped out six cellars, \$25.43, and one fountain for J. W. Furlong, \$8.00 ; altered twenty-five manholes, built four chutes and two basins for Rhode Island Company, \$346.20 ; built two basins for sundries, \$36.03 ; filled three cisterns, \$6.00 ; cut in one eight-inch and two six-inch connections, \$60.65 ; puddled two ditches, \$58.75 ; repaired one basin, \$6.25 ; rebuilt one manhole, \$23.00 ; altered one drain and built two manholes, \$33.75, and filled one gas holder, \$15.75, for Providence Gas Company ; built two basins, five chutes, two track grates for New York, New Haven and Hartford Railroad Company, \$132.05 ; drove test wells for Penniman & Maguire, \$33.50 ; repaired connection on Manton avenue, \$12.66 ; flooded skating rink for J. E. Sullivan, \$11.50.

For Park Department, Blackstone park : Built four basins, laid 101 feet of twelve-inch and ninety-five feet of fifteen-inch pipe, \$104.03.

For Merino Bridge: Built four basins, two chutes, one manhole, one twelve-inch storm sewer, 39.50 feet, set four grade posts, and built 11.06 feet of twenty-six inch brick sewer and 8.06 feet of eight-inch pipe sewer.

Carted coal for contingencies.

For Water Maintenance Department: Pounded and seeded banks at Hope and Sockanosset reservoirs; repaired one drinking fountain, one old drain at Sockanosset reservoir, and floor in boiler room at Hope station; carted fertilizer to Fruit Hill and Sockanosset reservoirs; removed ashes from Hope station eight times, and built two manholes for sprinklers.

For Sewer Construction Department—(regular): Built eight basins, twenty chutes, thirteen house connections, 18.67 feet of fifteen-inch, 181.92 feet of twelve-inch, and 75.90 feet of eight-inch pipe sewer; (storm sewers): built ten basins, seventeen chutes, 298.17 feet of fifteen-inch, and 809.83 feet of twelve-inch pipe, sewer, nine manholes and one house connection.

For Improved Sewerage Department: Built five basins, thirteen chutes, 18.17 feet of six-inch drain to curb, and thirty feet of twenty-inch brick sewer.

Altered ten manholes, for highway department; examined sewer in Branch avenue for sewer construction department; built six basins, twelve chutes, 195 feet of fifteen-inch, and 199 feet of twelve-inch pipe sewer, (old work); built four manholes on intake to brick station, (repairs).

The amount of bills approved on account of sewers from October 1 to December 31, 1903, inclusive, was as follows:

FOR CONSTRUCTION.

Regular appropriation.....	\$42,736 80	
Improved sewerage appropriation.	26,467 52	
		\$69,204 32

Charged as follows:

Contract reservations.....	\$10,307 00
Material.....	8,858 98
Sundries.....	1,016 43
Additional catch-basins.....	619 53
Testing cement.....	268 80
Tools.....	16 52
Sewer in Atwells avenue, Pine and Broad streets..	4,789 45
Sewer in Barnes street, from the low point in said street west of Thayer street to Thayer.....	55 08
Sewer in Branch avenue, from Douglas to Veazie street.....	3,243 13
Sewer in Branch avenue, from Langdon street to near the Moshassuck river.....	3,359 14
Sewer in Charles street, from near Amboy to Branch avenue.....	12 00
Amount carried forward.....	\$32,746 06

Amount brought forward.....	\$32,746 06
Sewer in Dudley street, from junction of Pearl and Plain to Eddy street, and across land of the city from Eddy street to the head of the city dock.....	3,711 44
Sewer in Hilton street, from Bogman' to Willard avenue, and in California avenue, from Virginia to Eddy street.....	1,997 16
Sewer in Merino avenue, from Manton avenue to near Merino bridge.....	5,359 62
Sewer in North Main street, east side, from Stenton avenue to Third street.....	3,616 63
Sewer in Silver Spring street and Northup avenue.....	10
Sewer in Wayland, Cole, and University avenues.....	3,714 58
Sewer in Weymouth street and Lloyd avenue.. . .	2,979 51
Sewer in Branch avenue, from Veazie street to the river near Vandewater street.....	4 50
Sewer in Moshassuck Division, Section 27.....	2,523 36
Sewer in Moshassuck Division, Section 28.....	1,060 79
Sewer in Seekonk Division, Section 29.....	3 25
Sewer in Seekonk Division, Section 30.....	11,487 32
	<u>\$69,204 32</u>

For maintenance, \$28,896 75

Classified as follows:

Cleaning basins and sewers.....	\$5,368 41
Repairing basins and sewers.....	3,140 10
Cleaning and repairing old drains.....	1,203 62
Use of water.....	900 00
Inspection of connections.....	683 72
Sundries.....	617 54
Barn expenses.....	548 83
Tools.....	548 34
Salary, superintendent.....	456 57
Horses, wagons, harnesses, etc.....	371 87
Office expenses.....	72 91
Cleaning private connections.....	40 00
Telephone lines.....	35 93
Car fares.....	15 00
Repairs on gate-house.....	14 44
Repairs on buildings.....	14 07
Filling cisterns, etc.....	10 83

ERNEST STREET STATION.

Coal and wood	1,334 80
Engineers	757 85
Cleaning screens.....	593 67

Amount carried forward..... \$16,728 50

REPORT OF THE DEPARTMENT OF PUBLIC WORKS. 27

Amount brought forward.....	\$16,728 50
Firemen.....	429 78
Cleaning and repairing pumps.....	354 13
Supplies.....	215 47
Care of grounds.....	52 65
Lights.....	31 44
Repairs on boilers.....	30 82
Repairs on engines.....	16 33
Care of buildings.....	9 77
Repairs on buildings, sewer maintenance yard....	1 00

SEWAGE PRECIPITATION TANKS.

Chemicals.....	5,964 47
Labor in sludge disposal.....	2,334 91
Labor on sewage precipitation.....	1,386 64
Electrical power.....	503 75
Repairs on machinery.....	331 89
Fuel.....	234 24
Miscellaneous supplies.....	169 12
Lights.....	42 60
Repairs on sewage precipitation tanks.....	35 03
Repairs on buildings.....	24 21
	<hr/>
	\$28,896 75

The *net* expenditure for construction of sewers to December 31, 1903, inclusive, was..... \$7,508,250 56

The *net* expenditure for maintenance of sewers to December 31, 1903, inclusive, was..... \$1,038,438 41

Bills deposited with the city treasurer for collection from October 1 to December 31, 1903, inclusive, amounted to . . . \$2,896 30

As follows:

Miscellaneous work.....	\$906 80
Old scrap tobin bronze.....	103 60
Cleaning private connections.....	45 25
Laying drains to curbstones.....	29 43
Pumping out cellars.....	10 83
Sewer material.....	1,795 19
Testing cement.....	5 20
	<hr/>
	\$2,896 30

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of \$2,716 96

As follows :

Miscellaneous work.....	\$852 30
Old scrap tobin bronze.....	103 60
Cleaning private connections.....	90 75
Pumping out cellars.....	12 43
Second-hand furnace.....	3 00
Sewer material.....	1,623 85
Laying drains to curbstones.....	29 43
Testing cement.....	1 60
	<hr/>
	\$2,716 96

HIGHWAYS.

One permit to open street was issued during the quarter.

November 17, 1903, the offer of Calder & Carnie to furnish and deliver 30,000 granite blocks for the sum of \$1.35 per square yard, was accepted.

The offer of Joseph Newall & Company to furnish and deliver 50,000 granite blocks for the sum of \$1.38 per square yard, was accepted.

November 20th, the proposal of the Westerly Granite Works to furnish and deliver 50,000 granite blocks for the sum of \$1.35 per square yard, was accepted.

One thousand and sixty-one notices to build or repair sidewalks were served on the abutting owners during the year 1903. The work, including one hundred sixty-three brought over from the preceding year, was done as follows :

By the abutting owners.....	921
By the city, at the expense of the abutting owners.....	89
Extension of time, for doing work, granted to.....	33
Work not done.....	179

The length of received streets December 31, 1903, was 232.13 miles, measured on street lines and to street line intersections. But, as it is customary in street construction or street paving to complete the work to the curb line intersection, the lengths in the following tables are measured on those lines and sub-divided as follows:

Received streets.....	238.02 miles.
Streets curbed and built.....	161.61 miles.
Streets not curbed, but the roadway macadamized or graveled.....	28.73 miles.
Streets paved.....	33.00 miles.
Streets received, but not improved.....	14.68 miles.
Total.....	238.02 miles.

The actual area of street pavement is 730,233 square yards. If this is estimated to an average width of roadway of 30 feet, it would be equal to 41.49 lineal miles, and is sub-divided as follows:

Granite blocks.....	30.58 miles.
Cobble.....	5.11 miles.
Asphalt.....	4.91 miles.
Vulcanite.....	.47 miles.
Brick.....	.42 miles.

In addition to the general patching necessary to maintain the streets in good repair, the following work has been done during the year ending December 31, 1903, namely:

New streets built.....	12,800.00 linear feet.
Curbing set.....	21,046.42 linear feet.
Streets rebuilt.....	1,650.00 linear feet.
Streets resurfaced.....	138,200.00 linear feet.
Streets graded.....	11,900.00 linear feet.
Block pavement laid.....	3,687.3 square yards.
Cobble pavement laid.....	6,594.3 square yards.
Asphalt pavement.....	5,232.1 square yards.
Asphalt pavement relaid.....	2,584.23 square yards.
Cobble pavement relaid.....	5,431.29 square yards.
Block paving relaid.....	21,875.55 square yards.
Brick paving relaid.....	52.35 square yards.
Concrete sidewalks laid.....	1,822.75 square yards.
Concrete sidewalks patched and top-dressed.....	3,876.00 square yards.
Crushed stone used.....	41,726.57 tons.
Screened gravel used.....	1,903.00 cubic yards.

Of the above amount of pavement relaid, the cost of relaying 17,200.57 square yards, amounting to \$19,441.26, was paid by the corporations for which the work was done.

During the year the following streets, aggregating 26.174+ miles, have been resurfaced, namely:

Acorn street, from Harris avenue to Kinsley.
Admiral street, from Charles to Berkshire.
Allston street, from River avenue to Walcott street.
Alverson avenue, from Plainfield street to Hartford avenue.
Angell street, from Wayland avenue to Prospect street.
Armstrong avenue, from Brook street to East.
Arthur avenue, from Atwells to Kenyon street.
Atwells avenue, from Covell street to Manton avenue.
Bainbridge avenue, from Westminster street to Broadway.
Barton street, from Westminster to Broadway.
Battey street, from Westminster to Vernon.
Belmont avenue, from Carleton street to Mt. Pleasant avenue.
Benefit street, from North Main to Wickenden.
Blackstone street, from Broad to Prairie avenue.
Blackstone boulevard, in part from Irving avenue to Rochambeau.
Bough street, from Westminster to Dike.
Branch avenue, from Moshassuck river to Vandewater street.
Branch avenue, from Veazie street to Douglas avenue.
Bridgham street, from Westminster to Cranston.
Broad street, from Public to Thurbers avenue.
Bucklin street, from Earl to Carter.
Calverly street, from Smith to Edith.
Cambridge street, from Academy avenue to Sears.
Carleton street, from Chalkstone avenue to Hendrick street.
Carpenter street, from Dean to Fountain.
Cedar street, from Acorn to Dean.
Cemetery street, from North Main to Frost.
Central street, from Pearl to Bridgham.
Chalkstone avenue, from Charles street to Black.
Charles street, from Branch avenue to Peter street.
Charles street, from Hagan street to city line.
Chattlet street, from Hartford avenue to Barbara street.
Coddling street, from Westminster to Cranston.
Concannon street, from Moy to Veazie.
Constitution street, from Lester to Wilson.
Covell street, from Atwells avenue to Amherst street.
Cypress street, from North Main to Hope.
Dean street, from Atwells avenue to Cedar street.
Delaine street, from Valley to Woonasquatucket river.
Delaine street, from Appleton to Manton avenue.
Doane avenue, from Elmgrove to Wayland.
Douglas avenue, from Admiral street to Veazie.

Douglas avenue, from Branch to city line.
Douglas avenue, from Mowry street to Admiral.
East George street, from Governor to Gano.
Elery street, from Chapin avenue to Willow street.
Elmwood avenue, from railroad bridge to city line.
Elmwood avenue, from West Friendship street to Adelaide avenue.
Erastus street, from Atwells avenue to Amherst street.
Eaten street, from Smith to Orms.
Felix street, from Chalkstone avenue to Valley street.
Fountain street, from Dean to Carpenter.
Gilmore street, from Lester to Wilson.
Governor street, from Wickenden to Waterman.
Hammond street, from Westminster to Cranston.
Hartford avenue, from Heath street to city line.
Hudson street, from Messer to Huntington avenue.
Hyat street, from Amherst to Manton avenue.
Jewett street, from Calverly to 300 feet westerly.
Joslin street, from Atwells avenue to Manton.
Judith street, from Lena to near Sterling avenue.
Lavaughn street, from Atwells avenue to Amherst street.
Livingstone street, from North Main to Printery.
Lockwood street, from Broad to Pine.
Logan avenue, from Prairie to Ocean street.
Manton avenue, from Florence street to King.
Manton avenue, from Unit street to Egan.
McKinley street from Elmwood avenue to Roger Williams park.
Medway street, from Butler avenue to Ives street.
Norwood avenue, from Roger Williams park easterly 300 feet.
Ocean street, from Public to Thurbers avenue.
Orms street, from Valley to Smith.
Park avenue, from Cranston line east to Cranston line west.
Pearl street, from Plain to Prairie avenue.
Plain street, from Point to Public.
Plainfield street, from Union avenue to city line.
Pocasset avenue, from Plainfield street to Webster avenue.
Pond street, from Stewart to Summer.
Prairie avenue, from Public street to Broad.
President avenue, from Arlington to Elmgrove.
Printery street, from Randall to Livingstone.
Promenade street, from Calverly to Acorn.
Regent avenue, from River to Walcott street.
Robin street, from Regent avenue to Allston street.
Sayles street, from Burnside to Prairie avenue.
Smith street, from city line easterly 1,200 feet.
Smithfield avenue, from Branch to Moshassuck river.
Smithfield avenue, from Ledge street to city line.
Spruce street, from Acorn to Brayton avenue.
Sunset avenue, from Killingly street to city line.
Summer street, from Westminster to Broad.
Thayer street, from Angell to Charles Field.
Thompson street, from Wickenden to Tockwotton.

Tobey street, from Westminster to Broadway.
Valley street, from Felix to Orms.
Valley street, from Westminster to Atwells avenue.
Veazie street, from Branch avenue to Woodward road.
Villa avenue, from Arlington to Taber.
Waterman street, from Wayland avenue to Prospect street.
Wayland avenue, from Angell street to Waterman.
West Clifford street, from Point to Dudley.
West Friendship street, from Broad to Elmwood avenue.
Whittier avenue, from Plainfield street to Gifford.
Whitney street, from Elmwood avenue to Alger.
Wickenden street, from East to Gano.
Wilson street, from Elmwood avenue to Harrison street.
Willow street, from Messer to Ellery.
Wood street, from Messer to Huntington avenue.
Woodward road, from Illinois street to city line.

.397 + miles of streets have been rebuilt during the year,
namely :

Branch avenue, from Veazie street to bridge near Vandewater.
Hay street, from Pine to Friendship.
Friendship street, from Hay to Peck.

2.253 + miles of streets have been graded during the year,
namely :

Allens avenue, from Sayles street to Seymour.
Alumni avenue, from Weymouth street to Arlington avenue.
Croyland road, from Oxford street to Sayles.
Douglas avenue, from Branch to city line.
Hastings street, from Northup avenue to Ledge street.
Hilton street, from Willard avenue to near Bogman street.
Ledge street, from Hastings to Smithfield avenue.
Manton avenue, from Unit street to Egan.
Northup avenue, from Horton street to Silver Spring.
Park avenue, from Cranston line east to Cranston line west.
Rosedale street, from Messer to Ellery.
Sayles street, from Prairie avenue to Gordon.
Silver Spring street, from Ashton to Northup avenue.
Smithfield avenue, from Ledge street to city line.
Troop lane, from Charles street to Walling.

During the quarter, the following work was completed :

·SIDEWALKS TO BE CURBED AND GUTTERS PAVED.

Date of order.

Sept. 17, 1903, *Regent avenue, from Harold street to River avenue.*

Date of order.

Oct. 15, 1903, *Sayles street, from Gordon avenue to Prairie.*

“ “ “ *Croyland road, from Oxford street to Sayles.*

TO BE PAVED.

No. of resolution. Date of approval.

231: June 5, 1903, *Branch avenue, from Veazie street to bridge near Vandewater.*

The following work was in progress December 31, 1903, namely :

SIDEWALKS TO BE CURBED AND GUTTERS PAVED.

Date of order.

Oct. 15, 1903, *Morris avenue, from Cypress street to Olney.*

TO GRADE AND PUT IN GOOD CONDITION.

June 18, 1903, *Hastings and Ledge streets.*

The following work, ordered by the board of aldermen and city council, had not commenced December 31, 1903, namely :

SIDEWALKS TO BE CURBED AND GUTTERS PAVED.

Date of order.

Nov. 20, 1902, *Egan street, from Manton avenue to the bridge.*

June 18, 1903, *Bath street, from Orms to Calverley.*

“ “ “ *Wayland avenue, from Lloyd to Irving.*

“ “ “ *Cole avenue, from Lloyd to Irving.*

“ “ “ *University avenue, from Elmgrove to Slater.*

Bills approved on account of highways from October 1 to December 31, 1903, inclusive, amounted to :

Regular appropriation.....	\$92,653 20	
Special appropriation.....	870 19	
		\$93,523 39

Classified as follows :

Crushed stone—material and labor.....	\$19,191 55	
Repairs on unpaved streets	15,003 45	
Cleaning streets.....	14,402 46	
Repairs on paved streets.....	5,310 93	
Barn expenses	3,335 98	
Blacksmith and wheelwright shop.....	2,077 34	
Repairs on stone crushers.....	1,742 10	
Stone—paving and crosswalk.....	1,572 94	
Repairs on buildings, highway yard.....	1,445 31	
Tools, implements, etc.....	783 95	
Steam rollers—repairs and supplies.....	745 94	
Horses, wagons, harnesses, etc.....	723 67	
Labor on material.....	602 67	
Superintendent's salary	422 57	
Building driveways, etc.....	387 11	
Watering streets.....	242 46	
Watchman at city yard	149 14	
Sundries	145 96	
Office expenses, city yard.....	77 15	
Fencing streets—material and labor	44 34	
Car fares.....	10 00	
Telephone lines.....	5 35	
		\$68,422 37

NEW WORK—BUILDING AND REBUILD-
ING STREETS, ETC.

SIDEWALKS CURBED AND GUTTERS PAVED.

<i>Croyland road</i> , from Oxford street to Sayles.....	\$883 50	
<i>Douglas avenue</i> , from Chad Brown street to Admiral	870 19	
<i>Morris avenue</i> , from Cypress street to Olney... ..	4,670 25	
<i>Promenade street</i> , north side, from Leland to Cal- verley	980 74	
<i>Regent avenue</i> , from Harold street to River avenue	1,667 91	
<i>Sayles street</i> , from Gordon avenue to Prairie.....	1,126 85	
<i>Silver Spring street</i> , from Ashton to Northup avenue	706 96	
		10,906 42

PAVE WITH GRANITE BLOCKS, ASPHALT OR BITUMINOUS MACADAM.

<i>Branch avenue</i> , from Veazie street to bridge near Vandewater street.....	11,394 50
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GRADE AND PUT IN GOOD CONDITION.

<i>Hastings and Ledge streets</i>	2,800 10
	\$93,523 39

Bills deposited with the city treasurer
for collection from October 1 to December
31, 1903, inclusive, amounted to . . . \$17,574 98

As follows:

Labor and material.....	\$15,676 21
Building driveways, etc.....	896 19
Boarding horses for other departments.....	503 93
Street sweepings.....	318 75
Manure from barn.....	71 00
Use of steam rollers.....	51 00
Removing trees.....	32 00
Discharging cargoes at city wharf.....	21 00
Oil barrels.....	4 90
	<hr/>
	\$17,574 98

During the quarter, coupons from bills
collected have been returned by the city
treasurer and receipted for to the amount of \$7,147 76

As follows:

Labor and material.....	\$4,354 58
Building driveways, etc.....	1,082 46
Blacksmith and harness work done for other de- partments.....	509 34
Boarding horses for other departments.....	503 93
Street sweepings.....	359 05
Use of steam rollers.....	209 50
Manure from barn.....	71 00
Removing trees.....	32 00
Discharging cargoes at city wharf.....	21 00
Oil barrels.....	4 90
	<hr/>
	\$7,147 76

SIDEWALKS AND CURBING.

Bills approved on account of sidewalks
and curbing from October 1 to December
31, 1903, inclusive, amounted to . . . \$4,417 15

Charged as follows :

Granite curbing.....	\$3,667 27
Concreting sidewalks.....	607 98
Repairing sidewalks and gutters.....	141 90
	<hr/>
	\$4,417 15

Bills deposited with the city treasurer for collection from October 1 to December 31, 1903, inclusive, amounted to \$2,260 95

As follows :

Granite curbing.....	\$2,206 97
Concreting sidewalks.....	53 98
	<hr/>
	\$2,260 95

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of \$312 09

As follows :

Granite curbing.....	\$258 11
Concreting sidewalks.....	53 98
	<hr/>
	\$312 09

CITY ENGINEER.

Bills approved on account of the city engineer's department from October 1 to December 31, 1903, inclusive, amounted to \$11,203 62

Charged as follows :

Salary — city engineer.....	\$1,125 00
Salaries of assistants.....	8,977 02
Salaries of clerks.....	755 03
Car fares	203 60
Supplies — drawing material, etc.....	129 87
Meteorological instruments and repairs.....	7 02
Carriage hire.....	2 68
Instruments and repairs.....	2 25
Sundries.....	1 15
	<hr/>
	\$11,203 62

BRIDGES.

The following work was in progress at the end of the quarter, namely :

TO BUILD BRIDGE AND APPROACHES.

No. of resolution. Date of approval.

220. June 20, 1902, *Over Woonasquatucket river at Egan and Chatlett streets.*
411. Dec. 19, " *Exchange bridge on its northerly side ; bridge over the river between Exchange and Burnside bridges ; River walls between Burnside and Exchange bridges.*

Bills approved on account of bridges from
October 1 to December 31, 1903, inclusive,
amounted to \$5,023 92

Charged as follows :

Acorn street bridge.....	\$4 10
Barn expenses.....	137 28
Branch avenue culvert.....	19 61
Building at city yard.....	63
Burnside bridge.....	6 82
Cemetery street bridge.....	4 51
Crawford street bridge.....	168 66
Eagle street bridge.....	9 55
Francis street bridge.....	7 65
Hawkins street bridge.....	8 55
Horses, wagons, harnesses, etc.....	20 82
Lumber, hardware, etc.....	220 94
Manton avenue bridge.....	231 96
Point street bridge.....	1,058 53
Promenade street bridge.....	38 54
Randall street bridge.....	1 00
Red bridge.....	372 47
Rent of keeper's house — Washington bridge.....	36 00
Salaries — Point street bridge.....	953 25
Amount carried forward.....	\$3,300 87

Amount brought forward.....	\$3,300 87
Salaries — Red bridge.....	503 18
Salaries — Washington bridge.....	520 04
Sundries.....	137 52
Telephone lines.....	2 68
Tools.....	110 79
Washington bridge.....	441 64
West River street bridge.....	4 90
Weybosset bridge.....	2 30
	<hr/>
	\$5,023 92

Bills deposited with the city treasurer for collection from October 1 to December 31, 1903, inclusive, amounted to \$78 60

As follows :

Repairs on Point street bridge..... \$78 60

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of \$78 60

As follows :

Repairs on Point street bridge..... \$78 60

Bills approved for account of building the Merino bridge, from October 1 to December 31, 1903, inclusive, have been paid from the special appropriation for that work, to the amount of \$5,626 32

Bills approved for account of building the river walls between the Burnside and Exchange bridges, from October 1 to December 31, 1903, inclusive, have been paid from the special appropriation for that work, to the amount of \$13,883 83

PUBLIC LIGHTS.

Bills approved on account of the public lights from October 1 to December 31, 1903, inclusive, amounted to \$70,041 51

Charged as follows:

Arc lights.....	\$51,639 37
Incandescent lights.....	11,790 61
Welsbach lights.....	6,001 45
Salaries.....	461 43
Gas for street lights.....	74 34
Setting and removing gas posts.....	45 71
Barn expenses.....	27 50
Horses, wagons, harnesses, etc.....	1 10
	<hr/>
	\$70,041 51

Bills deposited with the city treasurer for collection from October 1 to December 31, 1903, inclusive, amounted to . . . \$113 12

As follows:

Common lanterns and frames.....	\$65 00
One roan horse.....	40 00
Setting and removing gas posts.....	8 12
	<hr/>
	\$113 12

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of \$113 12

As follows:

Common lanterns and frames.....	\$65 00
One roan horse.....	40 00
Setting and removing gas posts.....	8 12
	<hr/>
	\$113 12

PUBLIC WORKS OFFICE.

Bills approved on account of the public works office from October 1 to December 31, 1903, inclusive, amounted to . . . \$5,493 06

Charged as follows:

Salaries of commissioner and secretary	\$1,850 00
Salaries of office assistants	3,267 38
Office supplies	238 84
Telephone lines	133 84
Carriage hire	3 00
	<hr/>
	\$5,493 06

CONTINGENCIES.

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of \$111 00

As follows:

Inspection of electric wires	\$111 00
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WALTER F. SLADE,
Commissioner.

1904.]

CITY DOCUMENT.

[No. 5.]

ANNUAL REPORT

OF THE

INSPECTOR OF BUILDINGS

FOR THE YEAR 1903.

[Presented January 21, 1904.]



The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
63 Washington Street.
1904.

REPORT.

PROVIDENCE, January 1, 1904.

TO THE HONORABLE THE CITY COUNCIL OF THE CITY OF
PROVIDENCE:

GENTLEMEN: Another year having closed as regards the statistics which relates to building improvements, it is incumbent upon the head of this department to submit to your honorable body the customary annual report. In submitting this report, I feel gratified that it shows a substantial increase over that of last year, although for quite a period of time during the summer season it did not look promising for anything near the amount of results which they finally attained. Taking into account the early spring months the amount of building improvements of all kinds projected was almost phenomenal, but from about the last of April until near the very last of summer the falling off was noticeable in an unusual degree, recovering itself, however, later on, to such an extent that, as I said before, the final results were surprisingly large, and eclipsed those of last year very appreciably. Various opinions were advanced as to the cause of the great falling off of building operations during the earlier part of the year, at a time, too, when we look for things of that kind to be at their best, chief of which seemed to be the high price of materials and the agitation of labor in all its varied channels of employment. A combination of these matters, focussed, as they were, upon capital and the contractor who represented it, were undoubtedly largely responsible for stopping or deterring action upon work that

would have gone on but for this to a full completion. How much of the improvements thus suddenly stopped that had been contemplated were resumed after things had reached a settled basis, no one can positively say; we can only assert that, to all appearances there was a partial recovery of ground lost, otherwise our statistics would not have shown a gain instead of a decided loss. When we come to classify the various kinds of buildings as to the amounts expended upon them we find that those intended for business and manufacturing purposes were prominent factors at the latter end of the season in helping to swell the sum total. The character of buildings last mentioned seem to show very pointedly that there are plenty of moneyed interests that fully and honestly believe in the future growth and prosperity of our city as a distributing centre, and are ready and willing to back up their faith by large and substantial outlays. The dwelling house class of buildings are, of course, by nature of their use, more widely distributed than that of any other, and enter more conspicuously into the computations of the amounts expended than that of others in the majority of the wards. The fourth ward we naturally expect, by virtue of its location, to be deficient in the dwelling house class, but when we come to those devoted to business in various ways this ward stands second to none. Whether the number of tenements that have been added by the erection and alterations of dwelling houses are in excess of the demand is a mooted question, for the new tenement is taken in most cases before completion, and, when fully equipped with all modern conveniences, is rarely wanting for an occupant, although it may have already seen its first use by an earlier tenant. The apartment house does not seem to gain much headway in this city, whether it is from a decided antipathy of most people against living with several families under one roof, or whether the cost is such as to render the investment of no pecuniary advantage to the

investor, is not at this time easily determined. There is probably a little of both causes underlying the proposition. Those who would be amply able to pay for and enjoy all the benefits accruing from a domicile connected to and forming a part of a first-class apartment house, would much rather live in a modern cottage in a residential district. Unfortunately for the projector of the apartment house class in this city, land in many sections that offer exceptional advantages for the building of homes is very low in comparison with other cities, and is easily within the reach of those with moderate incomes. I feel that I must, in this connection, call attention to and give due credit to the enterprise and thrift shown by one class of our citizens, who have settled among us as emigrants from the sunny shores of Italy. It certainly is an achievement to be proud of, when we consider the small wage scale this class of people, taken as a whole, generally obtain, that of the whole amount expended in building operations the past year, fully ten per cent. was contributed by them towards the same.

BUILDING LAW.

During the past year a much-needed amendment to the building law was passed by the General Assembly and was presented to said body by one of the delegation from this city who was a builder, and had on more than one occasion fully experienced the want of such legislation. It related to the thickness of brick walls in certain classes of buildings which, under the law previous to amendment, allowed buildings that were to be used for a particular purpose to have thinner walls than others which were to be used for a different purpose, although practically there was not the slightest necessity for any such distinction. Previous to this change in the law, much criticism was often directed against this department for what appeared to be a glaring inconsistency in its rulings, but, as stated before,

there was no other alternative but to give such a decision. Under present conditions, however, the whole matter has been placed in such a way that no one class of structures is favored more than another, and that whoever reads can easily and readily understand its meaning.

ELEVATORS.

A large number of elevators have been equipped as the law directs during the past year, very many still remaining, however, without devices of any kind for the better protection of those who patronize them, and also, in a legal sense, of the owners and lessees of the buildings wherein they are located. As I have said in a previous report, one great difficulty encountered in the endeavors to fully enforce this elevator law is the owners' or lessees' inclination to fall back upon the casualty company that is paid to take care of all pecuniary liabilities that may arise from accidents or injuries to those who are making a legitimate use of them. Some owners or lessees have put on attachments that have answered their purpose but a short time after being put in operation, and then left them in this impaired condition, without any further apparent thought or attention, a state of things worse than it would be if no attempt had ever been made, for it simply leaves one to think that the safety device is in full working order, when nothing of the kind exists. At the present time there is no excuse for any one, as there was once, that good and efficient devices are wanting, for a number have already been put upon the market that fulfill all the requirements admirably, and at a much reduced cost to some others formerly exhibited.

FIRE ESCAPES.

The large majority of buildings in this city which come under the scope of the fire escape law are in a certain degree

quite fully covered with these extra but necessary exits. How many more should be added to many of our buildings in case of an extreme emergency is a matter not easily determined, for against the single judgment of the head of this department is arrayed the cupidity and social or other influence of the wealthy owner, who, of course, naturally considers that his opinion is entitled to as much weight as that of any one else. Underneath all, however, irrespective of anyone's judgment or opinion, there rests upon the owner the liability for injuries received in case of fire in any building of said owner, where no certificate of exemption has been issued. It makes no difference whether the owner has put on what he thinks is sufficient, or has put none on whatsoever; so long as said certificate is withheld, so long is he subject to the liabilities imposed.

VISITS OF INSPECTION, ETC.

As usual in these reports, in the table herein annexed is given, as far as possible, the daily work in detail executed by the members of this department for the year past. Very much travel is oftentimes required for matters that are apparently of a trivial nature, but yet when called upon the officials of this department have always endeavored to accede willingly to all honest and legitimate requests.

To new buildings.....	4,073
" additions and alterations.....	1,003
" buildings moved.....	40
" fire escapes, new and renewal.....	25
" old buildings.....	58
" steam boilers.....	20
" elevators and hoistways.....	287
" chimneys and smokestacks.....	2
" buildings damaged by fire.....	26
" vaults.....	1
" miscellaneous.....	8
Total.....	5,543

Certificates and permits have been issued as follows :

REMOVAL OF BUILDINGS.

Permits granted.....	38
Number of buildings included.....	42

NOTICES TO OBTAIN PERMITS TO BUILD.

Number served.....	1
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PERMITS TO RE-LOCATE BARNs.

Permits granted.....	8
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APPLICATIONS TO USE BUILDINGS AS BARNs.

Applications granted.....	14
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PERMITS FOR FIRE DOORWAYS.

Permits granted.....	3
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PERMITS TO ERECT STAGINGS OVER SIDEWALKS.

Permits granted.....	210
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PERMITS TO LOCATE BOILERS FOR BUILDING PURPOSES.

Permits granted.....	18
----------------------	----

CERTIFICATES OF EXEMPTION.

Certificates granted.....	11
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In concluding this report it is with a keen sense of pleasure that, as we take a retrospective view of the year's events, this city has not suffered to any great extent from any disastrous fires, although, as I have often stated previously, that the material for such is ever with us, and it only requires, many times, a small spark, a certain combination of circumstances, to start a conflagration appalling in its results. The only safe maxim to be rigidly observed by all those who have premises or buildings under their charge is that "eternal vigilance is the price of safety." This department has issued 1,098 permits to build for the past year, of which twenty-one failed to materialize—a much less

number than for the year 1902, but, as stated elsewhere, having many more large buildings included in the records for 1903 raises the totals to a larger sum than the year before. The average amount to each permit for the past year shows above \$3,500, while that of 1902 was a little over \$3,100, but the amount for 1903 was not, however, up to that of 1901, which was nearly \$3,900. The total amount for the year was very pleasing, when we consider that the permits acted upon were seventy short of the year previous, and we can only hope that at the close of the incoming year the total footings will be a disappointment on the better side. With many thanks for all favors received, I am,

Respectfully yours,

SPENCER B. HOPKINS,

Inspector of Buildings.

1903.		WARDS.			
NEW BUILDINGS.		I.	II.	III.	IV.
Dwelling Houses..	No.....	13	43	41	11
	Est'd cost.....	\$80,100 00	\$250,700 00	\$170,400 00	\$63,000 00
Manufactories and workshops..	No.....	6	2	1	7
	Est'd cost.....	36,000 00	800 00	100 00	195,000 00
Office and busi- ness buildings..	No.....	2		1	7
	Est'd cost.....	15,600 00		500 00	563,800 00
Public and muni- cipal buildings..	No.....				
	Est'd cost.....				
Public buildings, churches, halls, etc.....	No.....	2			
	Est'd cost.....	95,000 00			
School houses.....	No.....				
	Est'd cost.....				
Stores.....	No.....	1		2	2
	Est'd cost.....	600 00		8,800 00	2,300 00
Store-houses.....	No.....	13	9	15	12
	Est'd cost.....	7,450 00	2,650 00	2,200 00	67,650 00
Barns.....	No.....	4	6	13	1
	Est'd cost.....	2,800 00	5,600 00	4,700 00	2,000 00
Miscellaneous.....	No.....	1	4	14	2
	Est'd cost.....	35,000 00	250 00	1,050 00	250 00
Total by Wards.....		42	64	87	42
Estimated cost by Wards.....		\$272,550 00	\$260,000 00	\$187,750 00	\$894,000 00
Total number of new buildings, 1903.....654					
Total cost of new buildings, 1903.....\$3,321,000 00					

WARDS.						TOTALS.	
V.	VI.	VII.	VIII.	IX.	X.	No.	Est'd Cost.
30	80	15	63	35	26	357	
\$166,200 00	\$325,800 00	\$83,700 00	\$231,900 00	\$198,100 00	\$127,500 00		\$1,097,400 00
2	5	4	3	1		31	
80,000 00	20,150 00	135,600 00	25,550 00	12,000 00			505,200 00
3	2	1		1		17	
2,400 00	1,150 00	100 00		200 00			583,750 00
					1	1	
					18,000 00		18,000 00
						2	
							95,000 00
				1		1	
				75,000 00			75,000 00
2	5		3	5		20	
400 00	5,600 00		1,500 00	2,150 00			21,350 00
12	5	11	13	11	12	113	
154,850 00	850 00	2,250 00	4,300 00	1,750 00	3,800 00		247,550 00
4	7	4	9	4	3	55	
5,100 00	6,300 00	2,000 00	3,400 00	1,900 00	1,800 00		35,600 00
2	10	1	14	6	3	57	
150 00	3,300 00	50 00	900 00	1,650 00	450 00		43,050 00
55	114	36	105	64	45		
\$409,100 00	\$362,950 00	\$223,700 00	\$267,550 00	\$292,750 00	\$151,550 00		

1903.		WARDS.			
ADDITIONS AND ALTERATIONS.		I.	II.	III.	IV.
Dwelling houses..	No.....	25	36	41	15
	Est'd cost.....	\$17,200 00	\$36,500 00	\$21,450 00	\$5,900 00
Manufactories and workshops..	No.....	6	1	4	5
	Est'd cost.....	24,550 00	6,500 00	1,850 00	75,000 00
Office and busi- ness buildings...	No.....	3		3	16
	Est'd cost.....	3,000 00		1,550 00	40,000 00
Public and muni- cipal buildings..	No.....				
	Est'd cost.....				
Public buildings, churches, halls, etc.....	No.....			1	1
	Est'd cost.....			2,500 00	800 00
School houses.....	No.....	1			
	Est'd cost.....	15,000 00			
Stores.....	No.....	5		1	7
	Est'd cost.....	950 00		500 00	6,350 00
Store-houses.....	No.....	2	1	3	8
	Est'd cost.....	150 00	500 00	1,050 00	5,600 00
Barns.....	No.....	4	4	3	
	Est'd cost.....	3,500 00	4,950 00	400 00	
Miscellaneous.....	No.....	3		1	
	Est'd cost.....	8,500 00		500 00	
Total by Wards.....		49	42	57	52
Estimated cost by Wards.....		\$72,850 00	\$48,450 00	\$29,800 00	\$133,650 00

Total number of additions and alterations, 1903.....453

Estimated cost of additions and alteration, 1903.....\$473,600 00

WARDS.						TOTALS.	
V.	VI.	VII.	VIII.	IX.	X.	No.	Est'd Cost.
21	32	30	38	42	21	301	
\$15,100 00	\$9,200 00	9,550 00	\$17,450 00	\$43,650 00	\$13,550 00		\$189,550 00
3	1	2	4	4	2	32	
32,300 00	300 00	3,300 00	2,900 00	12,900 00	1,000 00		160,600 00
1	1		2	3		29	
300 00	2,000 00		8,050 00	400 00			55,300 00
	2					2	
	1,100 00						1,100 00
2	1	1				6	
1,600 00	500 00	100 00					5,500 00
						1	
							15,000 00
1	1			4	2	21	
300 00	100 00			600 00	400 00		9,200 00
5	2	3		3		27	
1,300 00	300 00	1,350 00		550 00			10,800 00
1	4	1	5	4	1	27	
400 00	4,700 00	500 00	1,000 00	800 00	200 00		16,450 00
			1	1	1	7	
			200 00	500 00	400 00		10,100 00
34	44	37	50	61	27		
\$51,300 00	\$18,200 00	\$14,800 00	\$29,600 00	\$59,400 00	\$15,550 00		

1902.		WARDS.			
NEW BUILDINGS.		I.	II.	III.	IV.
Dwelling houses..	No.....	31	46	36	14
	Est'd cost.....	\$262,000 00	\$258,100 00	\$174,500 00	\$75,000 00
Manufactories and workshops..	No.....	1	2	2	3
	Est'd cost.....	5,000 00	8,000 00	4,100 00	46,300 00
Office and business buildings..	No.....	2	1	1	2
	Est'd cost.....	30,000 00	500 00	200 00	200 00
Public and municipal buildings..	No.....	1			
	Est'd cost.....	600 00			
Public buildings, churches, halls, etc.....	No.....	2	1	2	
	Est'd cost.....	60,000 00	30,000 00	10,000 00	
School houses.....	No.....				
	Est'd cost.....				
Stores.....	No.....	1		2	7
	Est'd cost.....	25,000 00		4,300 00	122,700 00
Store-houses.....	No.....	14	7	9	6
	Est'd cost.....	6,750 00	1,050 00	2,250 00	14,500 00
Barns.....	No.....	3	11	16	3
	Est'd cost.....	33,000 00	19,550 00	5,500 00	20,800 00
Miscellaneous.....	No.....	5	2	18	1
	Est'd cost.....	17,300 00	100 00	3,600 00	500 00
Total by Wards.....		60	70	86	36
Estimated cost by Wards.....		\$439,650 00	\$317,300 00	\$204,450 00	\$280,000 00

Total number of new buildings, 1902.....671

Estimated cost of new buildings, 1902\$2,554,050 00

WARDS.						TOTALS.	
V.	VI.	VII.	VIII.	IX.	X.	No.	Est'd Cost.
23	78	26	67	40	26	387	
\$112,500 00	\$278,700 00	\$116,500 00	\$243,800 00	\$204,500 00	\$102,000 00		\$1,827,800 00
6	6	1	5	4	.....	30	
39,200 00	13,900 00	2,000 00	26,350 00	49,500 00	.....		194,350 00
.....	.....	4	2	1	.....	13	
.....	.....	800 00	21,000 00	300 00	.....		53,000 00
.....	.....	.....	1	.....	.....	2	
.....	.....	.....	600 00	.....	.....		1,200 00
.....	.....	.....	.....	.....	.....	5	
.....	.....	.....	.....	.....	.....		100,000 00
.....		
2	2	.....	2	6	3	25	
2,000 00	1,000 00	.....	400 00	1,800 00	1,500 00		158,700 00
7	17	2	7	12	5	86	
4,400 00	4,100 00	200 00	850 00	5,450 00	7,250 00		46,800 00
8	8	3	11	7	2	72	
26,700 00	10,900 00	3,400 00	7,650 00	11,100 00	250 00		138,850 00
.....	6	5	10	1	3	51	
.....	5,450 00	2,350 00	1,650 00	700 00	1,900 00		33,550 00
46	117	41	105	71	39		
\$184,800 00	\$314,650 00	\$125,250 00	\$302,300 00	\$273,350 00	\$112,900 00		

1902.		WARDS.			
ADDITIONS AND ALTERATIONS.		I.	II.	III.	IV.
Dwelling houses..	No.....	54	23	41	26
	Est'd cost.....	\$280,800 00	\$12,800 00	\$22,000 00	\$17,900 00
Manufactories and workshops..	No.....	1	1	6	6
	Est'd cost.....	3,000 00	800 00	100,000 00	13,800 00
Office and busi- ness buildings..	No.....	2		1	19
	Est'd cost.....	1,550 00		50 00	147,150 00
Public and muni- cipal buildings..	No.....			1	
	Est'd cost.....			10,000 00	
Public buildings, churches, halls, etc.....	No.....	1		1	1
	Est'd cost.....	10,000 00		4,000 00	200 00
School houses.....	No.....				
	Est'd cost.....				
Stores.....	No.....	6	1	2	12
	Est'd cost.....	2,900 00	500 00	350 00	138,050 00
Store-houses.....	No.....	1		1	3
	Est'd cost.....	300 00		100 00	900 00
Barns.....	No.....	2	4	6	3
	Est'd cost.....	10,800 00	450 00	8,100 00	3,000 00
Miscellaneous.....	No.....		1		
	Est'd cost.....		100 00		
Total by Wards.....		67	30	59	70
Estimated Cost by Wards..		\$309,350 00	\$14,650 00	\$145,400 00	\$321,000 00

Total Number of Additions and Alterations, 1902.....497

Estimated Cost of Additions and Alterations, 1902.....\$1,011,550 00

WARDS.						TOTALS.	
V.	VI.	VII.	VIII.	IX.	X.	No.	Est'd Cost.
20	53	32	34	34	27	344	
\$6,300 00	\$36,150 00	\$15,650 00	\$10,800 00	\$31,650 00	\$12,050 50		\$446,150 00
9	.....	2	2	4	2	33	
26,850 00	.....	250 00	300 00	16,000 00	20,000 00		181,800 00
2	1	2	1	1	1	30	
2,500 00	500 00	18,000 00	1,500 00	300 00	250 00		171,800 00
1	.....	.....	.....	.....	.....	2	
1,000 00	.....	.....	.....	.....	.....		11,000 00
.....	.....	1	.....	.....	.....	4	
.....	.....	100 00	.....	.....	.....		14,300 00
.....
3	1	.....	2	3	2	32	
700 00	100 00	.....	200 00	5,450 00	2,400 00		150,650 00
1	1	2	.....	1	.....	10	
100 00	2,500 00	1,400 00	.....	400 00	.....		5,700 00
3	6	1	3	6	2	36	
600 00	1,400 00	200 00	600 00	1,600 00	900 00		27,650 00
.....	2	1	2	.....	.....	6	
.....	350 00	1,500 00	550 00	.....	.....		2,500 00
.....
39	64	41	44	49	34		
\$38,100 00	\$41,600 00	\$37,100 00	\$13,950 00	\$55,400 00	\$35,800 00		

1903.	TENEMENTS BY WARDS.									
	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.
WARDS.....										
WARD TOTAL.....	16	63	121	35	86	141	30	122	145	71
Whole total for the year 1903.....										830

The table below illustrates the proportion each ward bears to the other in the amount expended for building operations of all kinds:

4th Ward.....	First	3d Ward.....	Sixth
5th "	Second	2d "	Seventh
6th "	Third	8th "	Eighth
9th "	Fourth	7th "	Ninth
1st "	Fifth	10th "	Tenth

1902.	RECAPITULATION.	
671	New Buildings.....	\$2,554,050 00
497	Additions and Alterations.....	1,011,550 00
	Total.....	\$3,565,600 00
1903.		
654	New Buildings.....	\$3,321,900 00
453	Additions and Alterations.....	473,600 00
	Total.....	\$3,795,500 00
1903.		
	Tenements added from new buildings, additions and alterations.....	830
1902.	Total for the year 1902.....	927

1904.]

CITY DOCUMENT.

[No. 6.]

ANNUAL REPORT
OF THE
INSPECTOR OF PLUMBING
FOR THE YEAR 1903.

[Presented January 21, 1904.]



The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
63 Washington Street.
1904.

ORGANIZATION
OF THE
INSPECTOR OF PLUMBING DEPARTMENT.

INSPECTOR,
REUBEN S. BEMIS.

ASSISTANT INSPECTORS,
HORACE B. HOLLAND, WILLIAM H. CAMFIELD.

CLERK OF DEPARTMENT,
CHARLES W. SPRATT.

REPORT.

OFFICE OF THE INSPECTOR OF PLUMBING.

CITY HALL, Providence, R. I., January 2, 1904.

TO THE HONORABLE THE CITY COUNCIL OF THE CITY OF
PROVIDENCE:

GENTLEMEN: The undersigned respectfully submits the tenth annual report of the work of this department, with recommendations for the substitution of hygienic plumbing for the unsanitary dry closets and outdoor privies now used in some fifty school buildings and yards.

UNSANITARY DRY CLOSETS IN PUBLIC SCHOOL BUILDINGS.

The disposal of excreta in public school buildings by the dry closet system was criticised in previous reports of this department. The explanation of the workings of the objectionable dry vaults, in which excreta is retained on the premises, was followed by their removal from sixteen school buildings. Modern flush closets having sewer connections were substituted for the unsanitary and offensive Smead dry closets. The work of providing schoolhouses with safe and cleanly flush closets, however, is not completed. The necessarily unhealthful vaults are in use in fifteen public school buildings, and this department again directs attention to the importance of early removal of these antiquated and disease-breeding closets.

When the dry closet was introduced the sewerage system had not been developed. The city, in consequence, was forced to dispose of excreta without drainage facilities. On unsewered streets this vexatious problem was solved by the

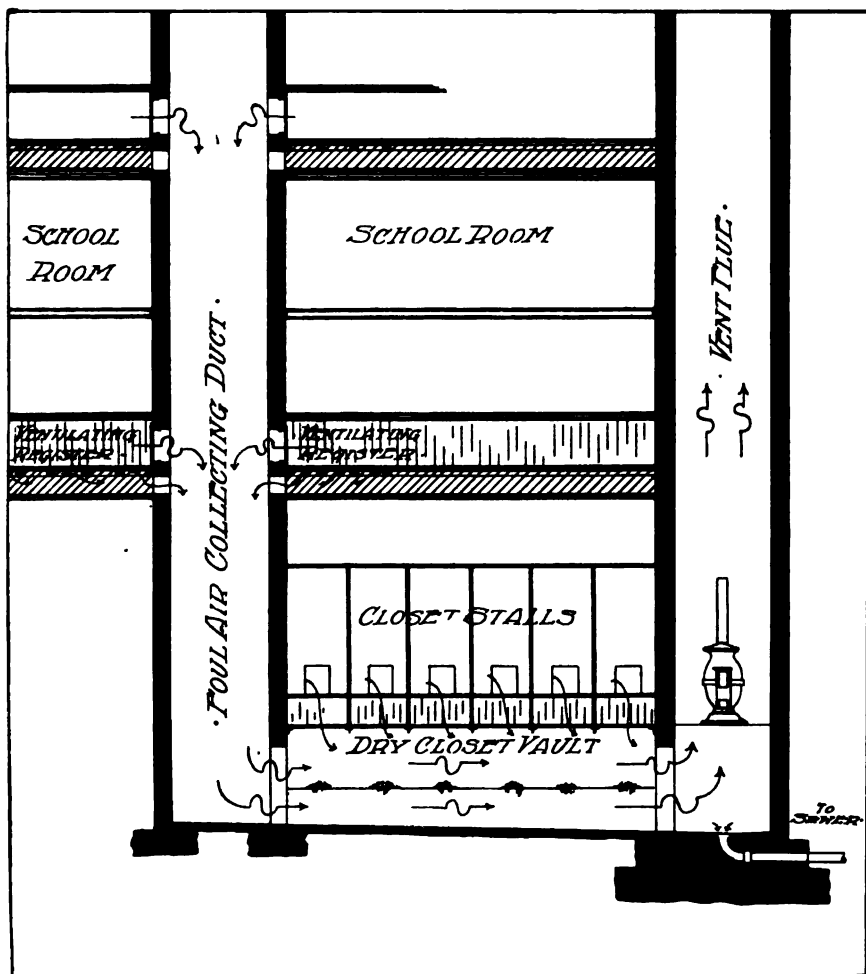
adoption of a system of heating and ventilation used in combination with dry vaults located in the building. The city having constructed sewers in streets on which a large number of school buildings are located, there is no excuse for the retention of dry closets, yet the vaults are in use to-day in fifteen school buildings, all of which, excepting one on Killingly street, are within a few feet of public sewers.

SCHOOLS.

Atwells avenue,
Almy street,
Beacon avenue,
Branch avenue,
Bourn street,
California avenue,
Eddy street,
Harris avenue,

Julian street,
Killingly street,
Niagara street,
Roosevelt street,
Sisson street,
Veazie street,
Willard avenue.

In the opinion of this department, it is both desirable and economical to relieve the school children from the dangers of the dry closets. The Smead vault system is expensive in operation as well as detrimental to health, and this undoubtedly will be conceded after study of the drawing showing in elevation the manner of placing the dry closet in a schoolhouse. The vault, located in the basement, is the depository of the excremental wastes. From one end of the vault a duct extends directly to the schoolrooms with which it is connected at points near the floor. At the other end of the vault is an air shaft, called the stack, which is carried above the roof. In this stack is a stove or heater, which, when hot, creates an up-draught in the stack and induces a downward current of air from the schoolrooms. This air current passes through the vault to the stack and escapes above the roof. There always is the possibility of the reversal of the direction of the current of air, and in this event foul air from the bottom of the filthy vault must pass into the schoolrooms, to be inhaled by hundreds of children. This most lamentable condition can be prevented



Drawing, illustrating the principle of the Smead System of Ventilation, in connection with the system of dry closet.

only by a continuous movement of air from the rooms through the vault and up the vent shaft, and the maintenance of the current is dependent upon the heater. Here is one of the weak points of the vault system. Should the fire in the stack heater go out the air current is liable to be reversed. Negligence on the part of the janitor will result in the filling of the schoolrooms with the foul odors and gases of the vault.

To insure pure air in the rooms the fire in the heater must be kept burning briskly twenty-four hours a day seven days of the week, except during the long summer vacation, when the annual cleaning of the vaults is done. Thus the stack fires call for extraordinary attention every minute of the year, except in summer; they cannot be extinguished on holidays or during short vacations, and the consumption of coal is correspondingly large.

It is not claimed by this department that reversal of the air current during school sessions is of frequent occurrence. During these few hours the janitor probably can be trusted to keep the stack fires burning freely. But after school, at night, and early in the morning, the fire is apt to be low, and, as the windows are open while the janitor is sweeping and dusting, reversal of the air current is not uncommon. The work simply is too exacting for the average janitor, and a smouldering fire is practically certain to send polluted air from the vaults into the rooms. It is an unsafe system which requires the janitor to begin his day's work at four o'clock in the morning in order that the stack fire may draw foul odors from the rooms occupied during the day by teachers and pupils. Under such conditions reversal of air current must be expected, and thus it is certain that thousands of children are exposed to the dangers inseparable from the dry vault in which filth accumulates steadily from September to July.

Atmospheric conditions sometimes affect the direction of

the air current, but the responsibility always rests heavily upon the janitor, whose infallibility never has been proved.

One of the most intelligent and trustworthy of janitors employed in the school department recently said to the Inspector of Plumbing: "At all times there is possibility of back draught from vault to schoolrooms should there be the least oversight in firing or cleaning the stack heater," and there is no exaggeration in the statement that all the testimony available condemns the vault system as unreliable and unwholesome.

But there is another convincing reason for the removal of every foul vault from the basements of school buildings. If the city does not save money by cutting off the coal bills inseparable from stack heaters, it will not lose a dollar by adopting flush closets discharging into the public sewers, and will have the benefits of modern sanitary plumbing.

Each stack fire consumes about sixty pounds of coal every twenty-four hours for at least 300 days of the year, or nine tons annually. Assuming the cost of coal to be \$5 a ton (this year the price is \$5.50), the cost of fuel is \$45 for each stack. Some of the schools have two stack heaters, which bring the fuel bill up to \$90. The fourteen school buildings* in which excreta is stored in the vaults in the basements, and which can be connected with the sewers, have nineteen stack heaters, consuming annually 171 tons of coal costing \$855.

Flush closets and urinals in these fourteen buildings can be provided for \$17,600, according to careful estimates. The cost in round numbers probably will not exceed \$18,000, the interest on which at 3 1-2 per cent. is \$630, or \$225 less than the cost of coal now burned in the stack heaters. The taxpayers, according to this showing, will save money by substituting cleanly flush closets for the unsavory dry vaults.

* The Killingly street school is not included as at present a sewer connection is impracticable.

In the table following are the names of schools, the number of rooms, the number of stack heaters, the consumption and cost of coal, and the estimated cost of flush closets and urinals:

NAME OF SCHOOL.	Number of Rooms.	Number of Stack Heaters.	Tons of Coal consumed annually.	Cost of Coal at \$5.00 per ton.	Estimated Cost of Flush Closets and Urinals.
Almy Street.....	4	1	9	\$45 00	\$1,000 00
Atwells Avenue.....	6	2	18	90 00	1,500 00
Beacon Avenue.....	6	1	9	45 00	1,500 00
Branch Avenue.....	8	2	18	90 00	1,800 00
Bourn Street.....	4	1	9	45 00	1,000 00
California Avenue.....	4	1	9	45 00	1,000 00
Eddy Street.....	4	1	9	45 00	1,000 00
Harris Avenue.....	4	1	9	45 00	1,000 00
Julian Street.....	6	2	18	90 00	1,500 00
Niagara Street.....	4	1	9	45 00	1,000 00
Roosevelt Street.....	8	2	18	90 00	1,800 00
Sisson Street.....	4	1	9	45 00	1,000 00
Veazie Street.....	6	2	18	90 00	1,500 00
Willard Avenue.....	4	1	9	45 00	1,000 00
		19	171	\$855 00	\$17,600 00

A few minutes' study of these conservative figures presented in tabular form should convince members of the City Council that money is being lost and the health of school

children is endangered by failure to utilize the sewers passing within a few feet of fourteen school buildings.

Eminent sanitarians, wherever the dry closet system was introduced, have condemned it. Among those who have been active in urging its removal from schoolhouses, is Dr. W. C. Woodward, Health Officer of the District of Columbia. In a report to the national House of Representatives, Dr. Woodward says: "To my mind, the most serious defect seems to have been the attempt to combine at all this system with that of heating and ventilating, systems which are diametrically opposed to each other and which have no connection between them. For why should we be constantly running the danger of a backward draught? And why should the teachers and pupils be constantly blockaded behind closed doors and windows when there is no necessity? And why should the atmosphere be poisoned and the soil polluted merely for the sake of retaining excreta upon the premises? So far as the dry closets are concerned, I think it was a mistake that they were ever introduced, and I would recommend their removal at the earliest opportunity."

OUTDOOR PRIVIES FOR SCHOOLS.

But the dry vault system is not the only evil tolerated by those in charge of public school property. The outdoor privy cannot be overlooked, although, as a rule, it does not directly affect the atmosphere of the school building. It is a nuisance which should be abated, and all that has been said by municipal officers about the privy in the yard of a citizen applies with equal force to the privy on a school-house lot. Every privy on a sewerred street should be removed without delay.

The schools having outdoor privies are:

Admiral street,	Daniel avenue,	Putnam street,
Africa street,	East street,	River avenue,
Aldrich street,	Graham street,	Slater avenue,
Amherst street,	Greeley street,	Smith street,
Bellvue avenue,	Hammond street,	Thayer st. (Primary),
Berlin street,	Highland avenue,	Thurbers avenue,
Branch ave. (Primary),	Hospital street,	Vineyard street,
Camp street,	Kelly street,	Warren street,
Chatlett street,	Oxford street,	Beacon Avenue Cook-
Chester avenue,	Point street,	ing School.
Covell street,	Public street,	

Of these thirty-one schools, twenty-six are on sewered streets. While there is no sewer in Aldrich Street, the sewer in Ernest Street is within a short distance. The Greeley Street School is only 600 feet from a sewer, and the modern flushing closets now in this building cannot be used without a sewer connection. The Kelly Street School is within 300 feet of a sewer. The Chatlett Street School is 3,250 feet from the nearest sewer, and at present drainage for the Daniel Avenue School is not possible except at a prohibitive price. At the Point Street School outdoor vaults are used during recess, and interior water closets are open while school is in session. These closets are of antiquated type. Originally the old pan closets were placed in the Point Street School, and, when worn out, were superseded by offset washout closets, and the old lead traps attached to the pan closets were retained. The combination of offset closets and old lead traps is little better than the pan closets because of the large fouling surface presented. This one feature makes the Point Street closets unsanitary.

Many of the twenty-six schools having outdoor privies and located on sewered streets have sewer connections for inside closets reserved for teachers, or for flushing vaults in the yards. The flushing vaults, it is proper to state, are but a degree removed from the old-fashioned privy vaults, notwithstanding the fact that they are connected with the sewer and are supplied with water. If not emptied and re-

filled with water daily, nuisances are inevitable. The screens of one-inch mesh placed in these vaults to intercept anything which might clog the sewers often are stopped with paper, the removal of which is so disagreeable that lack of attention must be expected as a matter of course. Besides, in winter freezing interferes with the operation of flushing, and thus for a considerable part of the time they are no better than the regular privy vaults.

That they are standing nuisances cannot be disputed. That they menace the health of children is equally obvious. Leaving a warm room, wading through snow and slush, and remaining several minutes in a temperature varying from freezing point to zero is not conducive to health. The hardiest of the pupils may not contract colds and pneumonia, but the more delicate ones can hardly hope to escape the consequences of this cruel exposure to cold.

Is it not inconsistent for the city to retain outdoor privies in school yards, and to compel private individuals to remove outdoor privies wherever sewer connections are possible? Since 1892 the Board of Health has been exceedingly zealous in the praiseworthy work of eradicating privy vaults, and over 7,000 were abolished. The Board of Health doubtless has made the city more healthful by this vigorous campaign against foul vaults on sewered streets, and is entitled to the thanks of the community. Why should the city continue to violate the sanitary regulations which individuals are forced to observe? There can be no satisfactory reason for the retention of outdoor vaults on public property abutting on or near sewered highways; the city's only course is to give the school children the full benefit of the system of public sewers without further delay.

In thus criticising dry closets and outdoor privies this department is not actuated by a desire to be sensational; the object is to impress upon the City Council the importance of cleanliness and comfort in public school buildings.

That the conditions are highly unsanitary cannot be disputed; the remedy is easily applied and there is no excuse for neglecting to order modern plumbing wherever sewer connections can be made. Good health is as essential as the knowledge gained in schoolrooms, and without pure air and sanitary plumbing it is impossible to obtain full value for the large sums expended upon public education.

A physician of national reputation expresses this idea very aptly: "Hygienic perfection, if anywhere requisite and worthy of earnest effort is doubly so in our schools, in consequence of the large number of those who spend the whole or part of their days in schools, and the relatively large portion of this number who are in the formative years of life."

As was stated in a report of an expert committee on sanitation and ventilation of schoolhouses in Boston, teachers and pupils are present in such buildings under governmental or public compulsion, and the public is placed under corresponding obligation to surround them with the best of hygienic conditions. Accordingly, those to whom the designing of means for securing such conditions is committed also are under obligations to recommend only the surest means for accomplishing the results sought—the abolition of the ever-present menace of the dry closet and the noisome outdoor privy vault, in order that the health of this generation and generations to come may not be injured.

WORK OF BOARD OF EXAMINERS.

Eighteen applicants for master plumbers' licenses were examined during the year by the Board of Examiners created in 1902. Of these, eleven demonstrated their knowledge of practical plumbing and obtained licenses. The remaining seven were unable to answer some of the simplest questions pertaining to plumbing, and their applications for licenses were refused.

The members of the Board of Examiners are intelligent men who have had long experience in practical plumbing. They receive no compensation for the time devoted to the important work of making it impossible for the public to be imposed upon by incompetent master plumbers. In commending the Board of Examiners for the public spirit thus manifested, this department doubtless reflects the opinion of every resident whose health is dependent upon the maintenance of a high standard of excellence in plumbing.

WORK OF THE DEPARTMENT.

The department has followed the custom adopted since its inception, of refusing to recommend a license for the new year to any plumber or drain layer who had defective work on hand December 31, until the same was corrected. On January 1, 1904, there were fifty-one firms whose licenses were withheld.

The number of plans filed during the year was: Plumbing, 2,065; drainage, 737; making a total of 2,802 plans. Of the 2,065 plumbing plans, 411 were for work in new buildings, and 1,654 for work in old buildings; 1,841 being connected with the sewers, and 224 being connected with cesspools. The number of inspections made on plumbing work during the year was 4,283; on drains, 1,144; and on miscellaneous work 239, making a total of 5,666 inspections.

Of the 2,404 plumbing jobs inspected during the year, 290 were found defective, or about 12 per cent. The estimated cost of the plumbing work performed during the year was \$347,979, a decrease in the valuation from the preceding year of \$101,657.

PROSECUTION.

Frank A. Matthews, Chief of Police, *vs.* Simon Harrison; Police Court, July 16, 1903. Violation of revised ordi-

nances of 1900. Building rear of 73 Benefit Street; no plan filed of plumbing, and work not inspected. Fined \$15 and costs. Pled guilty.

In this case the illegal and defective work was corrected at the expense of the defendant, without the necessity of issuing a second warrant for arrest for failure to comply with the law.

SUMMARY OF WORK.

Number of plumbing inspections.....	4,283
Number of drain inspections.....	1,144
Number of other inspections.....	239
Total.....	5,666
Number of plumbing plans filed.....	2,065
Number of drain plans filed.....	737
Total.....	2,802
Number of plumbing plans for work in new houses.....	411
Number of plumbing plans for work in old houses.....	1,654
Number of plumbing plans with sewer connections.....	1,841
Number of plumbing plans with cesspool connections.....	224
Valuation of plumbing plans filed.....	\$347,979,000

Respectfully submitted,

REUBEN S. BEMIS,

Inspector of Plumbing.

LICENSED MASTER PLUMBERS FOR YEAR 1903.

1	P. & J. Tierney Co.....	522 Westminster street.
2	D. F. Holmes & Co.....	65 Eddy street.
3	American Plumbing Co.....	56 North Main street.
4	Job S. Fuller.....	14 Page street.
5	Frederick G. Lees.....	139 Weybosset street.
6	Charles R. Blackmar.....	114 Elmwood avenue.
7	W. B. Thompson.....	855 Westminster street.
8	T. I. Hudson.....	15 Cranston street.
9	J. J. Shanley.....	70 Richmond street.
10	General Fire Extinguisher Co.....	301 West Exchange street.
11	J. T. Bannon.....	1865 Westminster street.
12	P. O'Conner.....	26 College street.
13	T. F. Doyle.....	87 North Main street.
14	M. Greeley.....	56 Charles street.
15	Appleton & Lee.....	1880 Westminster street.
16	H. Collison.....	11 Haymarket street.
17	M. J. McCormick.....	445 South Main street.
18	R. H. Berry.....	459 Smith street.
19	T. J. McKeen.....	117 North Main street.
20	J. G. Brickley.....	100 Sheldon street.
21	A. T. Rossiter.....	464 Plainfield street.
22	A. Birtwell.....	12 Flora street.
23	Macauley Bros.....	188 Ocean street.
24	W. C. Rice.....	24 Cranston street.
25	D. McCarthy.....	86 Wickenden street.
26	T. F. McCarthy.....	130 Clifford street.
27	W. MacVicar.....	251 Plain street.
28	Smith & White.....	158 Delaine street.
29	P. W. Meehan.....	Rear 27 Burnett street.
30	W. M. Keller.....	391 Elmwood avenue.
31	F. E. Hubeley.....	80 Richmond street.
32	James Phillips.....	Rear 136 Academy avenue.
33	J. F. Walsh.....	292 Prairie avenue.
34	W. J. Livsey.....	429 Huntington avenue.
35	Joseph Capaldi.....	341 Atwells avenue.
36	P. R. Walker.....	217 Broad street.
37	Phillips & Phillips.....	90 Pine street.
38	F. A. Wing.....	Gorham Manufacturing Co.
39	Graham Bros.....	215 Prairie avenue.
40	W. Richardson, Jr.....	Rear 194 Pond street.
41	D. McPhail.....	8 Chalkstone avenue.
42	R. Richardson.....	926 Manton avenue.
43	W. M. Congdon.....	290 Cranston street.
44	Edward Scott.....	428 Eddy street.
45	J. F. Keenan.....	42 Beacon avenue.
46	W. Whittaker.....	46 Plainfield street.

47	E. Barry.....	1487 Broad street.
48	J. L. Hindle.....	217 Academy avenue.
49	M. J. Read.....	754 Eddy street.
50	J. C. Conroy & Co.....	446 Westminster street.
51	N. B. La Pearl.....	332 Pocasset avenue.
52	T. Paulson.....	258 Alabama avenue.
53	J. W. Hunt.....	24 Chestnut street.
54	J. L. Goodwin.....	1088 Broad street.
55	J. C. Dunn.....	45 Broadway.
56	J. T. Warburton.....	35 Autumn street.
57	J. C. McElroy.....	452 Atwells avenue.
58	Charles A. Garvin.....	Promenade street.
59	T. Caffery.....	46 Abbott street.
60	Melarky Bros.....	641 Charles street.
61	S. Jones.....	298 Eddy street.
62	R. F. Cary.....	858 Broad street.
63	M. J. Murphy.....	18 French street.
64	C. W. Cassidy.....	363 Admiral street.
65	D. D. Conroy.....	587 Broad street.
66	J. C. Lally.....	49 Aborn street.
67	J. F. McEvoy.....	Atlantic Mills.
68	T. H. J. Nash.....	706 Cranston street.
69	E. Frank Carey.....	888 Westminster street.
70	L. Ouimette.....	718 Cranston street.
71	H. H. Dauphinee.....	1513 Broad street.
72	T. E. Manney.....	164 South Main street.
73	M. R. Capron.....	24 Chalkstone avenue.
74	W. J. Cain.....	745 North Main street.
75	T. F. McCormick.....	134 Chapin avenue.
76	W. G. Heath.....	60 Friendship street.
77	J. A. Donnelly.....	183 Regent avenue.
78	J. H. O'Loughlin.....	88 Cranston street.
79	Edward McKenney.....	557 Eddy street.
80	G. Riccitelli.....	146 Acorn street.
81	L. C. Stevenson.....	47 Weybosset street.
82	J. L. Carey.....	710 Westminster street.
83	Ira Winsor.....	169 Dorrance street.
84	J. W. Horton.....	156 West Exchange street.
85	A. Hainsworth.....	559 Branch avenue.
86	C. P. Brennan.....	1 Waterman street.
87	J. F. Davey.....	276 Tockwotten street.
88	G. M. Geer.....	211 Eddy street.
89	M. F. Murphy.....	374 Elmwood avenue.
90	W. F. Wright.....	840 Eddy street.
91	G. W. Thornley.....	82 Orange street.
92	J. T. Milner.....	300 Broad street.
93	P. J. Conaty.....	735 Eddy street.
94	J. W. McAuliffe.....	123 Dorrance street.
95	F. R. Burlingame.....	955 Westminster street.
96	R. F. Bowen.....	22 Bancroft street.
97	D. McNanley.....	54 Sutton street.

98	C. F. Wade.....	166 Valley street.
99	L. P. Trudon.....	1002 Westminster street.
100	P. M. Claven.....	355 Valley street.
101	D. G. Mackay.....	197 Dean street.
102	C. F. Heck.....	190 Dean street.
103	J. E. Mulvihill.....	3 North Main street.
104	C. W. Spencer.....	322 Cranston street.
105	W. F. Hussey.....	416 Wickenden street.
106	A. B. Matteson.....	86 Mathewson street.
107	M. McNanley.....	48 Grove street.
108	Murphy & Fries.....	31 Eddy street.
109	T. Condon.....	199 Montgomery avenue.
110	J. E. Catrell.....	146 Smith street.
111	G. H. Haswell.....	1300 Eddy street.
112	Elmwood Plumbing Co.....	Elmwood avenue and Public street.
113	C. L. Potter.....	77 South Main street.
114	W. C. Johnson.....	Rear 1937 Westminster street.
115	J. A. Darling.....	1252 Elmwood avenue.
116	J. P. Morrissey.....	919 Atwells avenue.
117	Frank Riley.....	471 Manton avenue.
118	F. Scoliard.....	30 Robinson street.
119	D. Burton.....	25 Page street.
120	P. F. Burke.....	70 Hyatt street.
121	W. T. Hatch.....	Promenade street.
122	W. B. Wood.....	725 Branch avenue.
123	R. A. LeGarde.....	217 Transit street.
124	C. E. Bassett.....	365 North Main street.
125	W. C. Tillinghast.....	125 Eddy street.
126	F. G. Merewether.....	96 Mathewson street.
127	F. Dupuis.....	157 Orange street.
128	J. S. Wright.....	3 Benefit street.
129	M. H. A. Burnside.....	289 Plainfield street.
130	J. J. Fell.....	736 Cranston street.
131	Ephraim Gifford & Co.....	888 Westminster street.
132	P. N. Kehoe.....	69 Richmond street.

LICENSED DRAIN LAYERS FOR YEAR 1903.

1	John Deary.....	232 Dudley street.
2	W. N. Chadsey.....	3 Custom House street.
3	N. W. Colgrove.....	75 Carpenter street.
4	T. A. Perry.....	75 Westminster street.
5	J. W. Furlong.....	46 Benevolent street.
6	A. Aiello.....	35 Grape street.
7	W. H. Armstrong.....	33 Kenfield street.
8	W. H. Andrews.....	42 Atlantic avenue.
9	Frank Murray.....	64 Allston street.
10	G. F. Lewis.....	142 Waverly street.
11	W. J. Hogg.....	37 Meeting street.
12	W. Condry, Jr.....	8 Chalkstone avenue.
13	Vito N. Famiglietti.....	508 Charles street.

SUMMARY BY MONTHS, 1902.

MONTHS.	Plumbing Inspections.	Drain Inspections.	Other Examinations.	Total Number Inspections.	Plumbing Plans Filed.	Drain Plans Filed.	Total Number Plans Filed.	Old Houses.	New Houses.	Sewer Connections.	Cesspool Connections.	Estimated Cost.
January.....	418	108	24	550	132	43	175	107	25	121	11	\$20,835 00
February.....	131	37	19	187	104	26	130	93	16	101	3	17,023 00
March.....	474	59	7	540	171	52	223	145	28	103	10	26,903 00
April.....	373	134	16	523	234	101	335	196	38	203	31	37,203 00
May.....	398	130	11	539	233	94	327	187	46	216	17	46,373 00
June.....	328	140	23	489	180	102	281	137	41	154	17	25,690 00
July.....	440	115	18	573	203	80	283	143	55	189	15	36,435 00
August.....	429	160	22	611	204	94	298	157	47	187	17	101,468 00
September.....	407	113	26	546	182	81	263	148	34	173	9	39,487 00
October.....	381	110	16	507	185	79	264	133	52	170	15	34,157 00
November.....	434	117	11	562	152	75	226	121	31	142	10	26,214 00
December.....	401	101	10	512	119	48	164	98	21	113	12	36,748 00
Total.....	4,672	1,324	203	6,199	2,099	874	2,973	1,965	434	1,932	167	\$449,636 00

SUMMARY BY MONTHS, 1903.

Months.	Plumbing Inspections.	Drain Inspections.	Other Examinations.	Total Number Inspections.	Plumbing Plans Filled.	Drain Plans Filled.	Total Number Plans Filled.	Old Houses.	New Houses.	Sewer Connections.	Cesspool Connections.	Estimated Cost.
January	331	86	14	431	122	24	146	110	12	119	3	\$14,528 00
February	263	51	9	323	146	30	176	126	20	140	6	20,479 00
March	384	87	11	482	200	67	267	157	43	179	21	27,195 00
April	392	90	21	503	186	57	243	154	32	165	21	27,130 00
May	258	92	22	372	131	82	213	101	30	117	14	18,377 00
June	320	60	22	402	193	43	236	150	43	172	21	34,941 00
July	319	95	29	443	206	63	269	161	45	182	24	49,525 00
August	321	117	16	454	184	84	268	151	33	166	18	32,185 00
September	433	98	19	550	181	75	256	141	40	157	24	35,771 00
October	431	125	19	575	188	84	272	135	53	169	29	31,915 00
November	308	142	17	467	157	67	224	126	31	130	27	22,911 00
December	523	101	40	664	171	61	232	142	29	155	16	33,013 00
Total	4,283	1,144	239	5,666	2,065	737	2,802	1,864	411	1,841	224	\$347,979 00

1904.]

CITY DOCUMENT.

[No. 7.

NINTH ANNUAL REPORT

OF THE

Board of Fire Commissioners,

FOR

1903.



The Providence Press:

SNOW & FARNHAM, CITY PRINTERS,

63 Washington Street.

1904.

REPORT.

HEADQUARTERS FIRE DEPARTMENT,
OFFICE OF THE BOARD OF FIRE COMMISSIONERS.
CENTRAL FIRE STATION, PROVIDENCE, R. I., Feb. 1, 1904.

TO THE HONORABLE THE CITY COUNCIL:

GENTLEMEN: In compliance with the provisions of Section 5 of Chapter 13 of the Ordinances, entitled Fire Department, the undersigned Board of Fire Commissioners have the honor of herewith submitting for your consideration the annual report of the condition and operations of the Fire Department during the year ending December 31, 1903, the same being the ninth report submitted since the organization of the Board.

COMPANIES.

The Fire Department at this date consists of twenty-eight companies, as follows:

- 9 Engine Companies.
- 11 Hose Companies.
- 8 Hook and Ladder Companies.

In addition to the above, there is one Protective Company, which is maintained jointly by the city and the corporation known as the Providence Protective Department.

Another hook and ladder company will be organized and placed in service as soon as the station now in process of construction at the corner of Mount Pleasant Avenue and Dover Street is completed.

From time to time applications for other companies are made, these applications being in each case received from the outlying sections, and, while there should be no hesitation in organizing such as are absolutely necessary for proper protection, yet it should be borne in mind that the city is, at the present time, well provided for in the matter of fire extinguishing appliances, there being one steam fire engine and one hook and ladder truck for every 2.03 square miles of territory, and one hose or combination wagon for every 0.91 square miles.

There is no question but that the property located in every section is entitled to and should receive adequate protection, but it is not necessary that companies should be as numerous in the outlying sections as in the centre of the city, where great values are concentrated, and where fires are at any moment liable to occur that would prove, not alone a loss to the individual, but might also assume such proportions as to amount to a public calamity, destroying numerous industries and paralyzing the business interests of the city. We should guard against locating companies in districts where the risks are few and where the need of their services is seldom required, especially if a sufficient number of companies are already so located as to furnish proper protection. The amount required for the maintenance of a company thus located annually reaches a large sum, and the service rendered is so small that no good business man would for an instant permit such expenditure in the conduct of his own affairs.

When a company is once located, public sentiment is strongly opposed to its removal, and for this reason, if for no other, great care should be exercised before any additional companies are organized.

MANUAL FORCE.

The force of the Fire Department, including the Board of Fire Commissioners, consists of 259 officers and men.

In addition to this number, the Protective Department employ eight men, making the total force of both departments, 267.

This force is classified as follows:

FIRE COMMISSIONERS' OFFICE.

3 Fire Commissioners.

2 Clerks.

UNIFORMED FORCE.

1 Chief Engineer.

1 Deputy Chief Engineer.

3 Assistant Engineers.

28 Captains.

28 Lieutenants.

9 Enginemen.

9 Assistant Enginemen.

83 Hosemen.

40 Laddermen.

39 Drivers.

5 Substitutes or Emergency Men.

FIRE ALARM SERVICE.

1 Superintendent.

1 Assistant Superintendent.

4 Operators.

2 Linemen.

PROTECTIVE DEPARTMENT.

1 Captain.

1 Lieutenant.

6 Covermen.

The changes occurring in the force during the past year have been as follows:

Appointed, substitutes	6
Appointed, members	7
Resigned	3
Reduced in rank.....	2
Reduced in grade.....	1
Promotions	3
Transferred	25
Deaths	2

The members of the department below the rank of Captain and Lieutenant, other than those occupying the position of Enginemen, are divided into four grades:

Firemen of the First Grade are paid \$3.00 per day.

Firemen of the Second Grade, \$2.67 per day.

Firemen of the Third Grade, \$2.33 per day.

Firemen of the Fourth Grade, \$2.00 per day.

Captains are paid \$3.50 per day, Lieutenants \$3.15, and Enginemen \$3.25 per day.

At present there are:

- 160 Privates of the First Grade.
- 11 Privates of the Second Grade.
- 6 Privates of the Third Grade.
- 5 Privates of the Fourth Grade.

APPARATUS.

The apparatus in service at the present time consists of:

- 1 First size American Piston Engine.
- 1 Second size La France Piston Engine.
- 1 Third size La France Piston Engine.
- 2 Second size Cole Brothers Piston Engines.
- 1 Second size Silsby Rotary Engine.

- 3 Third size Silsby Rotary Engines.
- 11 Four-wheeled Hose Wagons.
- 9 Combination Hose Wagons and Chemical Engines.
- 1 First size Hayes Hook and Ladder Truck.
- 2 Second size Hayes Hook and Ladder Trucks.
- 4 Seagrave Trussed Hook and Ladder Trucks.
- 1 Roller Frame Hook and Ladder Truck.
- 2 Protective Wagons (owned by the Protective Department).
- 5 Engineers' Wagons.
- 24 Exercise Wagons.

A contract was made on September 24, 1903, by our predecessors in office, with the Combination Ladder Company, of this city, for a Seagrave Trussed Truck, to be known as Hook and Ladder No. 9, and to be placed in service in the new station on Mount Pleasant. This truck is an exact counterpart of those now in service with Hook and Ladder Companies Nos. 3, 4, 7 and 8. It was built by the Seagrave Manufacturing Company, of Columbus, Ohio, and the contract price was \$2,550.

So far as the board have been able to ascertain, the apparatus, with a few exceptions, is in good condition. It is their intention, provided the funds at their disposal will permit of such action, to equip certain of the hose wagons with roller-bearing axles and rubber tires, it having been demonstrated to the satisfaction of the Board that these improvements are needed, and that they not only add to the efficiency of the service, but also effect a substantial saving in the matter of repairs.

RESERVE APPARATUS.

The apparatus in reserve consists of:

- 1 Second size Amoskeag Piston Engine.
- 1 Hayes Hook and Ladder Truck.

- 1 Roller Frame Hook and Ladder Truck.
- 1 Four-wheeled Hose Wagon.
- 1 "Champion" Water Tower.

The Ryan Truck now stored at Station No. 16 is of but little value and should be disposed of. This truck was purchased in 1882 and for a short time was in service with Hook and Ladder Company No. 4, on Wickenden Street, but for the greater portion of the time has been held in reserve.

It has seldom been called into service, as it is poorly adapted to our needs and is practically a useless incumbrance.

HORSES.

During the past year eleven horses have been purchased and placed in service with various companies. The aggregate amount paid for these animals, as shown by the books in this office, has been \$2,890. An equal number have been disposed of, the total amount allowed for the same having been \$835.

The Board are convinced that this portion of our equipment demands close attention, and they have adopted certain regulations relative thereto which they believe are necessary in order that the interests of the city may be properly safeguarded, and hereafter no horse will be purchased until after a thorough examination has been made by a competent veterinarian and the animal has served a satisfactory trial period.

Undue haste in the selection of horses will be carefully avoided, and there is no good reason why such as are well adapted for this service should not be secured.

While changes must from time to time be made, yet the Board believe that too rapid depreciation can be prevented if proper care is taken in the selection and none allowed to

enter the service until their capabilities have been thoroughly proven.

During the year just ended the department suffered serious loss in the deaths of both of our veterinary surgeons.

The senior surgeon, Dr. Alexander C. Buchanan, had acted as the department veterinarian for more than thirty years, and the city derived great benefit from his wide experience and undoubted ability.

His colleague, Dr. James H. Powers, had charge of the horses attached to companies on the west side of the river, and, although connected with the department for but little more than three years, yet during that period he proved himself a most skillful practitioner, and not only gained but also retained the confidence and esteem of those with whom he was brought in contact.

No department of the city has ever been served more faithfully than has this department by both Dr. Buchanan and Dr. Powers, and their removal by death was a severe loss to the service.

HOSE.

Two thousand feet of 2 1-2 inch hose of the "Keystone" Wax-Treated Brand, was purchased during 1903 from the Combination Ladder Company, of this city.

Since 1895 the greater portion of the hose purchased has been of this brand, and, so far as the Board are able to learn, it has given good satisfaction.

We have on hand at this date, 33,000 feet of 2 1-2 inch hose, 4,900 feet being in reserve, and the balance is distributed among the various companies. Unless some unforeseen emergency should arise this quantity will prove sufficient for all needs, and there will be no necessity for further purchases during the year ensuing.

WATER.

As the growth of the city increases, calls for additional hydrants are made, and the Department of Public Works have, wherever practicable, promptly acceded to all requests made by this department. During the past year twenty-six new hydrants have been installed, making the number now in service 1,898. Applications for more hydrants have been made, and these will, without doubt, be added as soon as the weather will permit.

The number of hydrants connected with the Special Water Service remains the same as at the time of the last report, viz., 92. The only extension made to this service during the year just ended has been such as was required to connect the automatic sprinkler systems in some of the larger buildings therewith, representatives of the insurance companies having requested that such action be taken, and the same having been granted by the Commissioner of Public Works after conferring with the Board of Fire Commissioners regarding the matter.

It will be seen by reference to the annual report of the Board of Fire Commissioners for the year ending December 31, 1902, that the question of extending the Special Water Service to certain sections of the city was at that time being considered, and that a plan was being prepared by the City Engineer whereby a pumping station might be installed, so that the pipe line could be extended and water pumped, in case of fire, direct from the river. So far as the present Board are able to learn, this matter remains the same as at the time referred to.

It would appear that so valuable an addition to our water service as this system has proven to be, should be added to each year, in order that all sections of the city, where the risks warrant such extension, should have the benefits to be derived therefrom.

Philadelphia has recently installed a pumping station to be used in connection with the mains, and if, as it appears, this is the only way in which the system can be extended in this city, action in this direction should be taken, and the Board therefore respectfully recommend that your honorable body will give this matter early consideration.

PROTECTIVE DEPARTMENT.

The company of this department has maintained its reputation for efficient and valuable service, and has on many occasions given evidence of its value in saving property from damage by water.

As has been previously stated, this company is maintained jointly by the city and the Providence Protective Department. The members are appointed by the Board of Fire Commissioners and are subject to the same rules and regulations as the members of the Fire Department. They are also entitled to and enjoy the same privileges as the members of the Fire Department, with the exception, however, that they are not eligible to the benefits to be derived from the Pension Fund.

They respond to the same calls, perform similar duties, and are exposed to the same dangers as the firemen, yet the fact that they are not employes of the city, and, therefore, not members of the Fire Department, debars them, in case of disability, from being retired upon a pension.

In the opinion of the Board, this is an injustice and should be remedied, as there is no good reason why they should not receive the same protection as the members of the Fire Department.

In the city of Boston, the members of the Protective Department, by an act of the legislature, are entitled to all the benefits of the Pension Fund, and the Board would

earnestly recommend that the City Solicitor be authorized to apply to the General Assembly for the passage of such legislation as may be necessary to place the eight members of the Protective Department upon the same footing in regard to pensions as that of the members of the Fire Department.

FIRE ALARM TELEGRAPH.

This important branch of the Fire Department is still located in the City Hall, and while the service rendered has been all that could be desired, yet the quarters which the members occupy are far from being desirable.

The Central Fire Station is admitted to be the proper place for the fire alarm equipment, and the Board trust that arrangements can be made during the ensuing year to have the same removed thereto.

It is not their purpose to reiterate the reasons why the apparatus should be removed, as these have been presented so many times as to be fully understood, but they have no hesitation in saying that it would be not alone for the interest of the department, but would also add much more to its effectiveness if the changes contemplated could be carried into effect.

During the past year 16 fire alarm boxes have been added to the aerial service, making the total number of signal boxes now in use, 385 as follows:

Underground System....	74 Public and 11 Private Boxes
Aerial System.....	253 Public and 47 Private Boxes

In this connection the Board desire to say that the installation of fire alarm boxes wherever practicable is, in their opinion, one of the most effective means of preventing excessive fire losses.

It is a well-known fact that prompt alarms contribute more to the success of the department than almost any other agen-

cy, and in every case where a box can be located so as to bring the Fire Department nearer to the risk such action should be taken. By this the Board do not mean that boxes should be installed in isolated sections, but they do believe that wherever any section of the city gives evidence of healthy growth that a sufficient number of boxes to insure adequate protection should be placed in service without delay.

The fire alarm service and everything appertaining thereto has continued under the personal charge of the Superintendent, Mr. Charles G. Cloudman, and to the active interest and painstaking care exercised by both him and the members under his charge, is to be attributed the excellent service which has been rendered by this branch of the department.

MORTALITY.

During the year just closed the department has been called upon to mourn the loss of two men who were not only counted as being among its most efficient members, but who were also held in the highest regard by their associates, to whom, in each case, the knowledge of their death came with a sense of personal bereavement.

On July 27, 1903, John E. Carlin, who since September 17, 1876, had served as driver in Hose and Engine Companies No. 2, fell from the hose wagon while responding to an alarm from box 141, the wheels of the apparatus passing over his chest, inflicting injuries which resulted in almost instant death.

Mr. Carlin was one of the oldest members of the department in point of service, having been a member of Engine Company No. 3 prior to his appointment to Hose Company No. 2 in 1876.

On August 16, 1903, District Chief Horace P. Griswold died of pneumonia after an illness which lasted only a week.

Chief Griswold became a member of the department July 1, 1875, on which date he was appointed call hoseman in Hose Company No. 13. On January 1, 1878, he was transferred to the permanent force of Hook and Ladder Company No. 1. In 1879 he was transferred to Hose Company No. 7 as hydrantman, and in 1883 was made captain of that company. He retained this position until January 1, 1896, when he was promoted to the position of District Chief, with headquarters at Station 8, on Harrison street.

Of these two men it can be said, that no call ever found them laggards, no danger was too great for them to face, and no duty too difficult to perform.

Such as these can be illy spared, and their deaths caused a loss alike to the department of which they were members, and to the city which they so long and so faithfully served.

PENSION FUND.

The condition of the Firemen's Pension Fund on December 31, 1903, was as follows:

Receipts.

Amount of Fund, Dec. 31, 1902.....		\$6,721 51
One per cent. assessments of salaries.....	\$2,695 20	
Deductions from pay.....	4,171 62	
Interest	190 49	
		<hr/>
		7,057 40
		<hr/>
		\$13,778 91

Expenditures.

Pension pay rolls	<hr/>	\$3,216 72
Amount of Fund, Dec. 31, 1903.....		<hr/>
		\$10,562 19

One retired member has died during the year, viz.: Francis D. Chester, whose death occurred May 14, 1903.

Mr. Chester was retired from the Fire Department July 13, 1901, being the first member to be placed upon the Pension Roll. The amount received by him from the date of his retirement until the date of his death was \$1,100.72.

At this date there are five members receiving pensions:

CHARLES A. COOK,
FREDERICK L. CAPRON,
PHILIP W. KELLY,
JOSEPH H. PENNO,
NICHOLAS WATERMAN.

EXPENDITURES.

The amount expended for the maintenance of the Fire Department during the year ending December 31, 1903, has been \$359,830.65.

Of this amount, \$234,640.62 was drawn from the appropriation for the fiscal year ending September 30, 1903, and \$125,190.03 from the appropriation for the year ending September 30, 1904.

The condition of the appropriation for the present fiscal year is, at this date, as follows:

Appropriation	\$372,000 00
Amount expended from Oct. 1, 1903, to Dec. 31, 1903.....	125,190 03
Balance unexpended Jan. 1, 1903.....	<u>\$243,809 97</u>

The purposes for which the expenditures have been made are classified as follows:

Salaries	\$273,979 61
Water—For hydrants	\$30,000 00
“ —For stations	1,030 93
	<u>31,030 93</u>
Horse feed and bedding.....	13,138 01
Fuel	9,432 59
Pension Fund (assessments and deductions).....	6,866 91
Fire alarm telegraph and telephone systems.....	4,075 94
Repairing and altering apparatus	3,511 55
Gas and electric lighting.....	3,617 13
Horses	2,890 00
Horse shoeing	2,384 54
Hose and equipments	2,315 09
Disabled firemen	1,007 66
Furniture and bedding	947 31
Extra horses	843 52
Veterinary attendance	838 00
Laundry work	787 27
Amount carried forward	<u>\$357,065 97</u>

Amount brought forward.....	\$357,665 97
Harness supplies and repairs.....	562 90
Ice at stations	286 60
Printing and stationery.....	190 09
Rent of land.....	50 00
Supplies and miscellaneous expenses.....	2,246 93
	<hr/>
	\$361,002 58
Less amounts received from sale of horses and material....	1,171 93
	<hr/>
	\$359,830 65

LOSSES AND INSURANCE.

The number of alarms to which the department have responded during the past year has been 973, the bell alarms numbering 442. Of these, 433 were first alarms, 8 second alarms, and 1 third alarm.

The number of still alarms was 531, or 13 more than in any previous year.

Five of the alarms responded to have been for fires out of the city limits, viz.:

- January 4. Dwelling house in Thornton, owned and occupied by H. B. Scott. Responded to by Engine Company No. 19.
- April 6. Dwelling house in Thornton, owned by Charles Fletcher and occupied by Ephraim Bedford. Responded to by Engine Company No. 19.
- May 14. Dwelling House in Cranston. Responded to by Hose Company No. 11.
- September 8. Dwelling house in Cranston, owned by Mary Sims, occupied by Erwin Gusti. Responded to by Engine Company No. 19.
- November 9. Dwelling house in Auburn, owned and occupied by Ira F. Peck. Responded to by Hose Company No. 11.

The most notable fires to which the department have been called have been as follows:

- January 10. Box 29 (third alarm). Coal sheds of the Eastern Coal Company (Pomroy yard), 330 Eddy street.
- February 22. Box 93 (second alarm). Frank C. Sayles's residence, No. 19 Stimson avenue.
- February 26. Box 32 (second alarm). Est. of S. M. Lewis jewelry manufactory, 61 Peck street.
- May 2. Box 233 (second alarm). F. E. Ballou Co.'s shoe store, 143 Weybosset street.

May 19. Box 455 (second alarm). Stephen Waterman's residence, 521 Angell street, and William P. Gannett, Jr.'s residence, 35 Rhode Island avenue.
 June 2. Box 261 (second alarm). E. E. Smith & Co.'s planing mill, 136 Rhodes street.
 July 22. Box 97 (second alarm. Chapel of the Central Congregational Church Society, rear Angell street and Diman place.
 December 3. Box 259 (second alarm). Providence Gas Co.'s plant on Globe street.

The loss occasioned by fire was, as near as the Board have been able to learn, \$218,807.98, as follows:

Loss on buildings.....	\$89,288 00
Loss on contents	129,519 98
Total	\$218,807 98

The amount of insurance involved was, as far as we have been able to ascertain, \$4,186,925.22, as follows:

Insurance on buildings	\$2,694,496 13
Insurance on contents	1,492,429 09
Total	\$4,186,925 22

The amount paid by the insurance companies in liquidation of losses, as reported to this office, has been \$179,693.90.

The following table exhibits the number of alarms, amount of loss and insurance, and also the amount of insurance paid in liquidation of losses each month:

MONTH.	ALARMS.		Loss.		Insurance.	Insurance paid.
	Bells.	Stills.	Buildings.	Contents.		
January.....	45	71	\$34,199 42	\$35,649 94	\$338,250 00	\$52,888 50
February.....	42	47	14,535 78	9,633 27	407,075 00	23,209 55
March.....	22	27	739 06	1,295 55	66,100 00	1,875 61
April.....	33	42	2,063 06	6,960 13	195,050 00	8,890 46
May.....	48	57	5,519 25	23,515 77	590,894 93	27,374 89
June.....	23	38	1,463 05	528 00	31,450 00	734 05
July.....	52	39	8,348 50	4,323 15	206,950 00	10,780 39
August.....	22	29	1,514 70	2,982 99	57,350 00	3,682 69
September.....	35	38	4,131 92	10,302 71	481,930 29	11,346 16
October.....	33	52	3,662 28	6,502 74	1,005,950 00	9,210 15
November.....	42	44	5,487 35	17,689 24	227,850 00	17,688 83
December.....	45	47	6,623 63	10,136 49	578,075 00	12,042 62
Total.....	442	531	\$89,238 00	\$129,519 98	\$4,186,925 22	\$179,693 90

The work performed by the various companies is given as follows:

HOSE WAGONS.	ALARMS ATTENDED.		ABSENT FROM STATION.			Number of feet of Hose laid.	Number of Hy- drant Streams.	Number of En- gine Streams.	Number of Extin- guishers used.
	Bells.	Stills.	Days.	Hours.	Minutes.				
1	117	33	3	10	8	20,150	41	.....	52
2	69	6	1	23	38	9,900	21	3	13
3	169	15	3	22	28	15,150	37	.....	49
4	89	12	2	5	3	10,000	24	.....	18
5	40	14	1	12	7	8,500	12	.....	25
9	105	45	3	15	43	15,270	25	.....	61
10	59	29	2	22	53	5,100	35	1	30
11	58	29	2	18	43	18,800	32	.....	39
14	76	49	3	4	45	26,650	40	1	68
15	76	24	2	13	48	16,900	33	2	26
16	16	19	1	0	32	3,650	8	.....	16

COMBINATION WAGONS.	ALARMS ATTENDED.		ABSENT FROM STATION.			NUMBER OF FEET OF HOSE LAID.		Number of Hydrant Streams.	Number of Engine Streams.	Number of Tanks Used.	Number of Extinguishers Used.
	Bells.	Stills.	Days.	Hours.	Minutes.	2½-inch.	½-inch.				
6	42	40	2	20	37	11,750	1,900	22	2	11	58
7	129	47	4	10	35	14,350	2,500	38	.....	26	56
8	125	23	3	4	18	13,100	7,400	20	1	36	28
12	71	17	2	8	29	7,850	1,200	22	1	6	14
13	142	21	3	13	53	12,250	4,500	18	1	25	25
17	63	25	2	6	5	6,600	3,400	15	.....	20	24
18	19	8	.....	16	2	2,600	1,700	4	.....	9	8
19	30	33	1	21	26	11,350	3,300	19	1	16	29
20	14	6	.....	13	55	900	.....	1	.....	.....	19

ENGINES.	ALARMS ATTENDED.		ABSENT FROM STATION.			Number of Times Engine Worked.	Number of Lines Supplied.	TIME IN SER- VICE AT FIRES.	
	Bells.	Stills.	Days.	Hours.	Minutes.			Hours.	Minutes.
2	111	.....	2	3	50	2	4	3	55
5	43	.....	1	2	48	1	1	2	30
8	100	.....	1	22	51	2	3	3	30
10	69	.....	1	17	26	3	4	5	51
12	47	.....	1	4	16	.....	.....	.....	.....
14	53	.....	2	19	29	1	1	.....	10
16	16	.....	.....	22	35	1	1	1	30
18	4	.....	.....	1	57	.....	.....	.....	.....
19	12	3	.....	12	9	1	1	.....	45

HOOK AND LADDER TRUCKS.	ALARMS ATTENDED.		ABSENT FROM STATION.			Number of Feet of Ladders Raised.	Number of Times Aerial Ladder Raised.	Number of Times Portable Extension Ladder Raised.	Number of Extinguishers Used.
	Bells.	Stills.	Days.	Hours.	Minutes.				
1	87	14	3	1	26	2,107	1	5	10
2	95	25	3	.....	39	2,508	.....	5	10
3	76	22	2	20	8	2,096	.....	7	34
4	86	17	2	21	35	2,355	.....	5	13
5	85	9	3	9	25	2,723	.....	2	57
6	91	35	3	8	45	2,380	2	8	45
7	38	8	1	17	6	1,836	.....	4	7
8	15	22	.....	21	49	704	.....	1	43

PROTECTIVE DEPARTMENT.	ALARMS ATTENDED.		ABSENT FROM STATION.			COVERS SPREAD.		Number of Fires at which Covers were Spread.	Number of Extinguishers Used.
	Bells.	Stills.	Days.	Hours.	Minutes.	Roof.	Stock.		
No. 1 Wagon.....	251	27	7	4	9	57	292	68	13
No. 2 Wagon.....	237	3	8	7	28	57	244	62	10

The following table shows the number of bell alarms received upon each day of the week :

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Sunday	4	4	5	6	1	2	3	2	8	2	6	4	47
Monday	6	4	6	3	4	5	6	3	5	5	8	5	60
Tuesday	9	5	2	2	8	5	8	4	10	8	7	8	73
Wednesday	4	6	.....	9	7	1	9	2	5	6	6	1	56
Thursday	4	9	3	4	6	2	5	3	1	5	5	7	54
Friday	7	8	2	6	11	4	7	2	3	6	8	12	76
Saturday	11	6	4	3	11	4	14	6	3	1	2	8	73
Total	45	42	22	33	48	23	52	22	35	33	42	45	442

The following table shows the number of bell alarms received during each hour of the day :

1903.																									Total.
	12 to 1 A. M.	1 to 2 A. M.	2 to 3 A. M.	3 to 4 A. M.	4 to 5 A. M.	5 to 6 A. M.	6 to 7 A. M.	7 to 8 A. M.	8 to 9 A. M.	9 to 10 A. M.	10 to 11 A. M.	11 to 12 M.	12 to 1 P. M.	1 to 2 P. M.	2 to 3 P. M.	3 to 4 P. M.	4 to 5 P. M.	5 to 6 P. M.	6 to 7 P. M.	7 to 8 P. M.	8 to 9 P. M.	9 to 10 P. M.	10 to 11 P. M.	11 to 12 P. M.	
January	3	1	1	1	1	1	1	1	4	4	2	2	1	2	1	1	4	4	3	3	3	1	1	2	45
February.....	4	2	1	1	2	2	2	3	4	2	1	2	1	3	1	1	1	1	4	2	1	1	2	2	42
March.....	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	2	1	1	1	1	3	1	1	1	22
April.....	1	5	1	1	1	1	1	1	2	1	1	1	1	1	5	2	2	2	3	1	1	2	2	2	33
May.....	2	4	1	1	1	1	1	1	5	4	1	4	2	2	4	1	1	1	1	2	2	1	3	1	48
June.....	3	1	1	1	1	1	1	1	1	3	1	2	1	1	2	2	1	1	3	1	1	1	3	1	23
July.....	1	2	2	2	2	2	2	3	1	4	2	1	4	2	3	4	2	1	4	6	3	4	1	1	52
August.....	1	1	1	1	1	1	1	1	1	1	1	1	3	1	2	1	1	2	1	2	2	1	1	2	22
September.....	1	1	1	1	1	1	1	1	1	2	2	2	1	2	2	3	2	3	2	5	5	3	1	3	35
October.....	1	1	1	1	1	1	1	1	1	1	2	1	5	1	4	1	3	1	5	2	2	1	1	1	33
November.....	1	1	1	1	1	1	1	1	7	1	1	1	2	1	1	4	1	2	2	5	1	4	6	1	42
December.....	1	2	1	1	1	1	1	2	3	2	4	1	1	3	2	1	3	3	5	1	3	2	4	1	45
Total	17	14	8	6	4	8	9	11	28	20	16	17	21	20	29	22	28	19	34	30	26	17	34	14	442

FIRE STATIONS.

The Central Fire Station was completed and turned over to this department on March 26, 1903, and is now occupied by the Board of Fire Commissioners, the Chief Engineer, Deputy Chief Engineer, Hose Company No. 1. Hook and Ladder Company No. 1, the Water Tower, Supply Department, and a portion of the Fire Alarm service.

The building is admirably adapted for the needs of the Fire Department and ample accommodations are provided for years to come.

The alterations ordered to be made, by joint resolution of the City Council, No. 373, series of 1900, in the station at the junction of Smith and Orms Streets, formerly occupied by Engine Company No. 12 and Hook and Ladder Company No. 3, were completed during the past year.

The quarters were occupied by Engine Company No. 12 on May 19, 1903; the Hook and Ladder Company having been provided with a new station in 1901.

The remodeled station is now one of the most complete in the city; being provided with every facility needed for the proper and effective working of the company, and is in marked contrast to the former wretched accommodations.

His Honor, Mayor Miller, in his last inaugural address, called attention to the need of alterations being made in the station on Central Street, now occupied by Hose Company No. 13.

The Board have inspected this station and are in thorough accord with the recommendations made by the Mayor.

The building was erected in 1874, and its arrangement, with few exceptions, remains practically the same as when first occupied. The requirements of the service have greatly changed since that time and the station should be

so arranged as to more fully meet the present conditions. The company located at this point, as stated in the Mayor's address, is one of the most important in the city, and, in the opinion of the Board, action should be taken at as early a date as possible with a view of carrying into effect the alterations referred to.

CONCLUSION.

In conclusion the Board desire to say that in assuming the management of the department they fully realize the importance of the task assigned them, and they also fully realize that the measure of their success will depend largely upon the manner in which the officers and members perform their duties, and, while the Board will see that every man is accorded fair treatment, yet they will, at all times, insist that the rules laid down for the government of the force shall be fully complied with, and will hold every member of the department to strict accountability for any deviation therefrom.

In the administration of the affairs of the department it will be their aim to act solely for what they consider to be for the advancement of the service and for the better protection of the interests of the citizens of Providence, whose servants they are.

Respectfully submitted,

IRA WINSOR,
WILLIAM ANDREWS,
JAMES DAVIS,

Board of Fire Commissioners.

FIRE DEPARTMENT

OF THE

CITY OF PROVIDENCE,

1904.

BOARD OF FIRE COMMISSIONERS,

OFFICE AT CENTRAL FIRE STATION.

IRA WINSOR, *Chairman*,

Residence, 9 Brighton Street.

Term expires January, 1905.

WILLIAM ANDREWS,

Residence, 365 Blackstone Street.

Term expires January, 1905.

JAMES DAVIS,

Residence, 90 Whittier Avenue.

Term expires January, 1905.

CLERK,

JOHN W. MORROW,

Residence, 169 Prairie Avenue.

SUPPLY CLERK,

HENRY R. BEEHLER,

Residence 46 McKinley Street.

CHIEF ENGINEER,

GEORGE A. STEERE,

Headquarters, Central Fire Station, Exchange Place.

Residence, 75 Broadway.

DEPUTY CHIEF ENGINEER,

HOLDEN O. HILL,

Headquarters, Central Fire Station, Exchange Place.

Residence, 21 Constitution Street.

ASSISTANT ENGINEER,

GEORGE F. BATTEY,

Headquarters, Station No. 12, Smith and Orms Streets.

Residence, 20 Goddard Street.

ASSISTANT ENGINEER.

WILLIAM F. SMITH,

Headquarters, Station No. 8, Harrison Street.

Residence, 116 Harrison Street.

ASSISTANT ENGINEER,

THOMAS H. DUFFY,

Headquarters, Station No. 11, Greenwich Street.

Residence, 216 Bellevue Avenue.

WASHINGTON

HOSE COMPANY NO. 1.

HOUSE AT EAST END OF EXCHANGE PLACE.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
1	James M. Curtis	Captain.....	51	23 Orms street.
10	Lewis A. Lusignan	Lieutenant.....	44	177 Clifford street.
11	Thomas H. Mullen.....	Hoseman.....	44	24 Barclay street.
12	Walter Sonner.....	"	35	25 Goddard street.
13	Charles H. LeClair.....	"	29	146 Jewett street.
14	William E. Cameron.....	"	30	317 Orms street.
15	John D. Jones	"	29	21 South Court street.
16	Walter H. Durfee..	Driver.....	50	11 Andrews street.

Four-wheeled Hose Wagon, built by F. P. Pearce & Co., Providence, R. I., in 1891. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service, 3,200 pounds. Placed in service July 10, 1891.

PIONEER

ENGINE COMPANY NO. 2.

HOUSE CORNER SOUTH MAIN AND COIN STREETS.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
2	Thomas J. Colburn	Captain.....	58	123 Sheldon street.
20	Edward F. Curtis	Lieutenant.....	34	129 Williams street.
21	John R. Sherman.....	Engineman.....	49	201 Wickenden street.
22	Daniel R. Munroe.....	Hoseman.....	37	124 Transit street.
23	William J. Sherman.....	"	34	117 Tockwotton street.
24	Frederick T. Sullivan.....	"	28	78 Preston street.
25	Richard Martin.....	"	31	15 Gillen street.
26	Thomas J. Morrissey	Engine Driver ..	49	153 Transit street.
27	Charles W. Sherman.....	Hose Driver.....	42	299 Wickenden street.

Second-class Piston Engine, built by the La France Engine Co., Elmira, N. Y., in 1890. Drawn by two horses, and weighs, ready for service, 8,495 pounds. Placed in service at Station 16, January 1, 1891. Removed to Station 2, January 18, 1892. Also, four-wheeled Hose Wagon built by Lewis L. Fales, Providence, R. I., in 1892. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service, 3,200 pounds. Placed in service June 15, 1892.

FIRE KING.

HOSE COMPANY NO. 3.

HOUSE ON POND STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
3	Oscar F. Millett.....	Captain	58	113 Prairie avenue.
30	Asa G. Davis.....	Lieutenant	42	146 Clifford street.
31	Henry MacLean.....	Hoseman.....	35	Fire Station.
32	George H. Goff.....	"	43	109 Prairie avenue.
33	Frank E. Atkinson	"	47	5 Dawson street.
34	Walter H. Hildreth.....	"	38	Fire Station.
35	John A. Reed.....	"	36	148 Clifford street.
36	Harry E. Carpenter	Driver.....	34	Fire Station.

Four-wheeled Hose Wagon, built by Archibald Martin, Providence, R. I., in 1895. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service, 3,600 pounds. Placed in service June 18, 1895.

HOSE COMPANY NO. 4.

HOUSE ON MILL STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
4	Reuben D. Weekes.....	Captain.	45	151 Doyle avenue.
40	George H. Noon.....	Lieutenant.....	45	24 Goddard street.
41	Hugh Mooney.....	Hoseman.....	34	33 Vinton street.
42	James J. Casserly.....	"	31	Fire Station.
43	William J. Sumption.....	"	42	29 Ashton street.
44	Thomas F. Sisson.....	"	51	58 Douglas avenue.
45	Walter H. Butts.....	"	28	18 Winsor street.
46	Howard A. Reynolds.....	Driver.....	28	449 Chalkstone avenue.

Four-wheeled Hose Wagon, built by Archibald Martin, Providence, R. I., in 1895. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service, 3,680 pounds. In service at Station No. 6 from May 9, 1895, until June 1, 1896. Rebuilt by J. G. McIntosh & Son, and placed in service at Station No. 4, July 21, 1899.

NIAGARA

ENGINE COMPANY NO. 5.

HOUSE CORNER HOPE AND OLNEY STREETS.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
5	Herman H. Fischer.....	Captain.....	60	35 Sheldon street.
50	Walter L. Damon.....	Lieutenant.....	43	199 Howell street.
51	Charles H. Handy.....	Engineman.....	47	19 Olney street.
52	Thomas Ryan.....	Hoseman.....	47	155 Lippitt street.
53	James W. Crawford.....	".....	49	94 Camp street.
54	Clarence E. Horton.....	".....	40	208 Power street.
55	Claude G. Reed.....	".....	28	152 Lippitt street.
56	George C. Woodbury.....	Engine Driver..	63	Fire Station.
57	Charles H. McCoid.....	Hose Driver.....	34	71 Carrington avenue.

Piston Engine, built by Cole Brothers, Pawtucket, R. I., in 1899. Rebuilt by the same firm in 1891. Formerly in service at the station at the corner of North Main street and Doyle avenue. Removed to present location January 18, 1892. Drawn by two horses, and weighs, ready for service, 7,300 pounds. Also, four-wheeled Hose Wagon, built by Lewis L. Fales, Providence, R. I., in 1892. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service, 3,300 pounds. Placed in service July 31, 1892.

WATER WITCH

HOSE COMPANY NO. 6.

HOUSE ON BENEVOLENT STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
6	Thomas W. D. Reynolds..	Captain..	61	86 Benevolent street.
60	William H. Salisbury.....	Lieutenant.....	57	98 John street.
61	John H. Witchell.....	Hoseman.....	51	74 Armstrong avenue.
63	Frank K. Wilkey.	".....	33	291 Brook street.
64	John I. McKay.....	".....	34	185 Williams street.
65	Andrew A. Doherty.....	".....	30	34 Monticello street.
66	William H. McCormack..	".....	30	483 Hope street.
67	Otis P. Dill.....	Driver.....	34	232 Meeting street.

Combination Hose Wagon and Chemical Engine, built by Charles T. Holloway, Baltimore, Md., in 1898. Drawn by two horses, carries 800 feet of 2½-inch hose, 200 feet of 1-inch hose, is equipped with one 35-gallon tank, and weighs, ready for service, 4,840 pounds. Placed in service June 1, 1898.

OCEAN

HOSE COMPANY NO. 7.

HOUSE ON RICHMOND STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
7	Thomas F. McNeal.....	Captain.....	51	148 Clifford street.
70	David W. Capron.....	Lieutenant.....	43	105 South street.
71	Mahlon D. Brown.....	Hoseman.....	45	482 Pine street.
72	George A. Capron.....	"	44	239 Pine street.
73	Frank A. Eldred.....	"	30	160 Elm street.
74	James E. Hackett.....	"	38	35 South Court street.
75	Michael J. Tierney.....	"	33	2 Hayward street.
76	Ellsworth E. Blackinton.	Driver.....	43	105 South street.

Combination Hose Wagon and Chemical Engine, built by Charles T. Holloway, Baltimore, Md., in 1898. Drawn by two horses, carries 700 feet of 2½-inch hose. 200 feet of ½-inch hose, is equipped with one 22-gallon tank, and weighs, ready for service, 4,710 pounds. Placed in service December 21, 1898.

ATLANTIC

ENGINE COMPANY NO. 8.

HOUSE ON HARRISON STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
8	Frank E. Taber.....	Captain.....	44	20 Dexter street.
80	Stephen C. Miller.....	Lieutenant.....	41	39 Hammond street.
81	Michael O'Gara.....	Engineman.....	42	33 Hudson street.
82	Patrick J. Smith.....	Hoseman.....	43	312 Knight street.
83	Frederick C. Walden.....	"	31	282 Cranston street.
84	Benedict P. Grant.....	"	37	1134 Westminster street.
85	Charles H. Claffin.....	"	36	26 Harrison street.
86	Cornelius V. Garvey.....	"	28	166 Chapin avenue.
87	John L. Mathewson.....	Engine Driver...	47	54 Sycamore street.
88	Nicholas T. Feely.....	Hose Driver.....	44	15 Diamond street.

First-class Piston Engine (Dexter Gorton), built by the American Fire Engine Co., Seneca Falls, N. Y., in 1896. Placed in service at Station 4, May 30, 1896. Removed to Station 8, Feb. 1, 1899. Drawn by two horses, and weighs, ready for service, 8,940 pounds. Also, Combination Hose Wagon, and Chemical Engine, built as a Hose Wagon by Lewis L. Fales, Providence, R. I., in 1892; changed to a Combination Wagon by Archibald Martin, Providence, R. I., in 1899. Drawn by two horses, carries 800 feet of 2½-inch hose, 300 feet of ½-inch hose, is equipped with one 30-gallon tank, and weighs, ready for service, 4,250 pounds. Placed in service as a Hose Wagon, July 1, 1892. As a Combination Wagon, November 26, 1899.

JOHN W. TILLINGHAST

HOSE COMPANY NO. 9.

HOUSE CORNER ATWELL'S AVENUE AND AMERICA STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
9	William W. Kelly.....	Captain.....	42	30 Penn street.
90	Herbert B. Kelley	Lieutenant.....	35	232 Federal street.
91	William E. Gardiner.....	Hoseman.....	36	20 Penn street.
92	Harry R. Angell	"	31	128 Sutton street.
93	Andrew C. Wrisley... ..	"	41	236 Federal street.
94	Fred S. Hopkins.....	"	25	250 Alabama avenue.
95	Albert J. Holley.....	"	30	302 Valley street.
96	Frank E. Bailey.....	Driver.....	39	10 Pequot street.

Four-wheeled Hose Wagon, built by F. P. Pearce & Co., Providence, R. I., in 1896. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service, 3,500 pounds. Placed in service February 19, 1896.

WASHINGTON

ENGINE COMPANY NO. 10.

HOUSE ON BURNSIDE STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
105	John H. Capron.....	Captain.....	50	496 Public street.
150	William A. Orr	Lieutenant.....	41	118 Burnside street.
151	Francis H. Morton, Jr....	Engineman.	29	271 Ohio avenue.
152	George H. Simmons.....	Hoseman.....	43	278 Swan street.
153	Samuel Loxley.....	"	35	121 Congress avenue.
154	John J. O'Neill.....	"	32	29 Harriet street.
155	Wallace A. Doe.....	"	34	228 Oxford street.
156	Patrick C. Henry.	Engine Driver..	42	152 Ocean street.
157	Howard E. Sherburne.....	Hose Driver.....	42	191 Sherburne street.

Third-class Rotary Engine, built by the American Fire Engine Co., Seneca Falls, N. Y., in 1893. Drawn by two horses, and weighs, ready for service, 6,600 pounds. Placed in service February 8, 1893. Also, four-wheeled Hose Wagon, built by John G. McIntosh, Providence, R. I., in 1893. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service, 3,200 pounds. Placed in service July 18, 1893.

ELMWOOD

HOSE COMPANY NO. 11.

HOUSE ON GREENWICH STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
106	Walter A. Vaughan.....	Captain.....	36	660 Public street.
160	Richard J. Powers.....	Lieutenant.....	34	18 Homestead avenue.
161	William A. Millard.....	Hoseman.....	44	43 Bellevue avenue.
162	Frederic H. Field.....	".....	74	144 Lexington avenue.
163	Walter L. Medhurst.....	".....	30	296 Althea street.
164	Chester M. Chace.....	".....	34	30 Trask street.
165	Timothy L. Kelley.....	".....	31	124 Hudson street.
168	Edmund H. Webber.....	Driver.....	36	337 Prairie avenue.

Four-wheeled Hose Wagon, built by Archibald Martin, Providence, R. I., in 1895. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service, 3,800 pounds. Placed in service May 18, 1895.

STILLMAN WHITE

ENGINE COMPANY NO. 12.

HOUSE JUNCTION OF SMITH AND ORMS STREETS.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
107	Edwin G. Andrews.....	Captain.....	39	19 Winsor street.
170	Horace S. Blake.....	Lieutenant.....	46	Fire station.
171	Charles H. Shippee.....	Engineman.....	43	206 Smith street.
172	Robert H. Waller.....	Hoseman.....	42	206 Smith street.
173	George H. Johnson.....	".....	47	148 Clifford street.
174	Thomas H. Jenckes.....	".....	50	18 Ruggles street.
175	Clarence C. Thomas.....	".....	29	Fire Station.
176	Frank H. Linnell.....	Engine Driver..	36	280 Smith street.
177	Leprelett W. Esten.....	Hose Driver.....	47	33 Violet street.

Piston Engine, built by Cole Brothers, Pawtucket, R. I., in 1870. Drawn by two horses, and weighs, ready for service, 7,250 pounds. Placed in service, January, 1871. Also, Combination Hose Wagon and Chemical Engine, built as a Hose Wagon by John G. McIntosh, Providence, R. I., in 1893, changed to a Combination Wagon by J. G. McIntosh in 1899. Drawn by two horses, carries 800 feet of 2½-inch hose, 200 feet of ¾-inch hose, is equipped with one 35-gallon tank, and weighs, ready for service, 4,500 pounds. Placed in service as a Hose Wagon July 28, 1893. As a Combination Wagon, May 30, 1899.

GOOD WILL

HOSE COMPANY NO. 13.

HOUSE ON CENTRAL STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
49	Daniel A. Nichols.....	Captain.....	39	24 West Friendship street.
180	Owen Trainor.....	Lieutenant.....	49	75 Portland street.
181	Robert Bucklin.....	Hoseman.....	38	102 Clifford street.
182	George H. Webber.....	".....	30	187 Prairie avenue.
78	William F. Greene.....	".....	29	Fire Station.
184	Edmund S. Godfrey.....	".....	37	205 Pond street.
185	Harry Howe.....	".....	30	40 Comstock avenue.
186	George Barbour.....	Driver.....	48	183 Lester street.

Combination Hose Wagon and Chemical Engine, built as a Hose Wagon by Lewis L. Fales, Providence, R. I., in 1892. Changed to a Combination Wagon by Archibald Martin, Providence, R. I., in 1899. Drawn by two horses, carries 600 feet of 2½-inch hose, 200 feet of 1-inch hose, is equipped with one 30-gallon tank, and weighs, ready for service, 4,136 pounds. Placed in service as a Hose Wagon, October 4, 1892. As a Combination Wagon, April 14, 1899.

PUTNAM

ENGINE COMPANY NO. 14.

HOUSE ON PUTNAM STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
109	John H. Hall.....	Captain.....	34	25 Rockingham street.
190	Peter Greene.....	Lieutenant.....	51	90 Academy avenue.
191	John B. Miller.....	Engineman.....	40	Fire Station.
192	Isaac L. Blackmar.....	Hoseman.....	65	Fire Station.
193	John Regan.....	".....	42	307 Manton avenue.
194	Frank E. Carberry.....	".....	38	100 Academy avenue.
195	William Benford.....	".....	42	22 Armington avenue.
196	Frank Charlesworth.....	Hose Driver.....	31	169 Amherst street.
197	Patrick Kelley.....	Engine Driver..	35	177 Amherst street.

Third size Piston Engine, built by the La France Fire Engine Company, Elmira, N. Y., in 1893. In reserve until August 9, 1895, when it was placed in service with Engine Company No. 14. Drawn by two horses, and weighs ready for service, 6,500 pounds. Also, four-wheeled Hose Wagon, built by John G. McIntosh, Providence, R. I., in 1893. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service, 3,200 pounds. Placed in service May 29, 1893.

WHAT CHEER

HOSE COMPANY NO. 15.

HOUSE ON WICKENDEN STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
200	Abner G. Allen.....	Captain.....	42	8 Courtright street.
201	Everett E. Potter.....	Lieutenant.....	37	178 Williams street.
202	Henry Charlwood....	Hoseman.....	53	98 Transit street.
203	Frank A. Scott.....	".....	52	368 Wickenden street.
204	Jeremiah Splan.....	".....	45	122 Tockwotton street.
205	William S. Fenner.....	".....	42	154 Transit street.
206	John H. Fischer.....	".....	28	175 Wickenden street.
207	John L. Keith.....	Driver.....	45	117 Chestnut street.

Four-wheeled Hose Wagon, built by Lewis L. Fales, Providence, R. I., in 1892. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service 3,200 pounds. Placed in service March 25, 1892.

ENGINE COMPANY NO. 16.

HOUSE CORNER BRANCH AVENUE AND CHARLES STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
230	Robert G. Haskins.....	Captain.....	48	41 Ashton street.
231	Ralph A. Wilbur.....	Lieutenant.....	38	61 Chatham street.
232	Albert J. Fleckhamer....	Engineman.....	38	157 Jewett street.
233	Charles W. Gillooly.....	Hoseman.....	53	Fire Station.
234	Owen McElroy.....	".....	43	100 Lockwood street.
235	Crawford A. Cornell.....	".....	49	38 Cypress street.
236	Joseph A. Devine.....	".....	27	Fire Station.
237	John J. O'Connor.....	Engine Driver..	38	70 Cypress street.
238	Albert C. Hammond.....	Hose Driver.....	28	76 Metcalf street.

Third-class Rotary Engine, built by the Silsby Manufacturing Company, Seneca Falls, N. Y., in 1891. Drawn by two horses, and weighs, ready for service, 6,640 pounds. Placed in service May 9, 1891. Also, four-wheeled Hose Wagon, built by Lewis L. Fales, Providence, R. I., in 1892. In service at Station 7 from March 2, 1892, until December 21, 1898. Removed to Station 16, February 2, 1899. Drawn by two horses, carries 800 feet of 2½-inch hose, and weighs, ready for service, 3,340 pounds.

HOSE COMPANY NO. 17.

HOUSE CORNER NORTH MAIN STREET AND DOYLE AVENUE.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
240	William H. Garvin.....	Captain.....	55	88 Jefferson street.
241	James H. Dean.....	Lieutenant.....	48	84 Doyle avenue.
242	Robert P. Patterson.....	Hoseman.....	40	40 Jenkins street.
243	Michael H. Cavey.....	"	51	112 Jenkins street.
244	Edward J. Nagle.....	"	36	59 Commodore street.
245	John C. Kennedy.....	"	48	26 Cypress street.
246	James B. Mulcahey.....	"	37	94 West River street.
247	George A. Bugbee.....	Driver.....	54	Rear 19 Liberty street.

Combination Hose Wagon and Chemical Engine, built as a Hose Wagon by F. P. Pearce & Co., Providence, R. I., in 1891, changed to a Combination Wagon by John G. McIntosh, Providence, R. I., in 1899. Drawn by two horses, carries 800 feet of 2½-inch hose, 200 feet of ½-inch hose, is equipped with one 21-gallon tank, and weighs, ready for service, 4,522 pounds. Placed in service as a Hose Wagon January 18, 1892. As a Combination Wagon March 20, 1899.

OLIVER E. GREENE

ENGINE COMPANY NO. 18.

HOUSE JUNCTION BROAD AND RUGBY STREETS.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
260	William H. Johnson.....	Captain.	68	1350 Broad street.
261	Henry B. Hall.....	Lieutenant.....	55	130 Oxford street.
262	John W. Booth.....	Engineman.	39	Norwood avenue.
263	Joseph W. Johnson.....	Hoseman.....	42	298 California avenue.
264	James T. Goff.....	"	35	1398 Broad street.
265	Bernard F. Sisson	"	38	22 Calla street.
266	William E. Viall.....	"	40	1028 Broad street.
267	John A. Worth.....	Hose Driver.....	49	322 Thurbers avenue.
268	Frank L. Thomas.....	Engine Driver..	44	56 Melrose street.

Steel Frame Combination Hose Wagon and Chemical Engine, built by the Fire Extinguisher Manufacturing Company, Chicago, Ill., in 1895. Drawn by two horses, carries 800 feet of 2½-inch hose and 200 feet of ½-inch hose, equipped with a 50-gallon tank, and weighs, ready for service, 4,940 pounds. Placed in service November 30, 1895. Also, Third-class Rotary Engine, built by the Silsby Manufacturing Company, Seneca Falls, N. Y., in 1890. In service at Station No. 8, from June 10, 1890, to Feb. 1, 1899, when it was removed to Station No. 18. Drawn by two horses, and weighs, ready for service, 6,620 pounds.

ENGINE COMPANY NO. 19.

HOUSE CORNER PLAINFIELD AND RYE STREETS.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
17	Charles T. Witchell.	Captain.	48	297 Laurel Hill avenue.
166	Leander D. Dawley.	Lieutenant.	56	194 Laurel Hill avenue.
167	John Graham.	Engineman.	37	102 Pocasset avenue.
129	David A. Bigney.	Hoseman.	39	Fire Station.
168	George A. Brown.	"	49	104 Pocasset avenue.
128	Frank M. Tillinghast.	"	36	518 Plainfield street.
248	Thomas W. Gibbons.	"	25	22 Lavaughn street.
169	Albert L. E. Cornell.	Engine Driver ..	32	177 Pocasset avenue.
239	William M. Barton.	Hose Driver.	31	23 Viola street.

Combination Hose Wagon and Chemical Engine built by Charles T. Holloway, Baltimore, Md., in 1898. Drawn by two horses, carries 1,000 feet of 2½-inch hose, and 200 feet of ½-inch hose, equipped with one 36-gallon tank, and weighs, ready for service, 4,800 pounds. Placed in service September 28, 1898. Also second-class Rotary Engine built by the Sibley Manufacturing Company of Seneca Falls, N. Y., in 1871. Rebuilt by the same firm in 1891. Formerly in service at Stations 8 and 14. In reserve from 1895 to Nov. 5, 1901, when it was placed in service at Station No. 19. Drawn by two horses, and weighs, ready for service, 7,150 pounds.

HOSE COMPANY NO. 20.

HOUSE ON MANTON AVENUE.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
18	Thomas McCoid.	Captain.	46	899 Manton avenue.
187	James Dowling.	Lieutenant.	48	2 Baltimore street.
188	Michael J. Dugan.	Hoseman.	40	178 Amherst street.
189	Frank N. Benchley.	"	49	Fire Station.
231	Michael J. Hanley.	"	31	222 Cleveland street.
232	William J. Maher.	"	28	32 Riverdale street.
233	Atmore L. Crandall.	"	30	687 Public street.
234	Lewis A. Cutler.	Driver.	53	33 Cambridge street.

Combination Hose Wagon and Chemical Engine built by Charles T. Holloway, Baltimore, Md., in 1897. Remodeled by John G. McIntosh, Providence, R. I., in 1899. Drawn by two horses, carries 800 feet of 2½-inch hose and 200 feet of ½-inch hose, equipped with one 36-gallon tank, and weighs, ready for service, 4,660 pounds. Placed in service Dec. 18, 1897.

HAYES

HOOK AND LADDER COMPANY NO. 1.

HOUSE EAST END OF EXCHANGE PLACE.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
39	Joseph W. Carpenter.....	Captain.....	51	557 Westminster street.
101	Joseph D. Kent.....	Lieutenant.....	51	Fire Station.
110	William Burke.....	Ladderman.....	43	27 Candace street.
111	Charles R. Wyatt.....	"	47	Fire Station.
112	Hugh McCartin.....	"	43	Fire Station.
113	Charles F. McGowan.....	"	27	45 Cypress street.
114	Nahum E. Willard.....	"	34	173 Wickenden street.
115	Jeremiah S. McDonald...	"	25	516 West Exchange street.
116	Edward C. Becker	"	36	76 Bogman street.
117	Augustus F. Higgins.....	"	24	9 Woodbine street.
118	Thomas H. Jones.....	Driver.....	36	25 South Court street.

First size Hayes Truck, built by the La France Fire Engine Company, Elmira, N. Y., in 1884. Drawn by three horses, and weighs, ready for service, 8,000 pounds. Longest ladder, 85 feet extension. Placed in service March 20, 1884.

HAYES

HOOK AND LADDER COMPANY NO. 2.

HOUSE ON HARRISON STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
102	Thomas R. Gorton.....	Captain.....	47	252 Pearl street.
120	Gilbert S. Inman	Lieutenant.....	32	26 Laura street.
121	Henry W. Irwin.....	Ladderman	45	64 Dexter street.
122	James Mulgrew.....	"	33	22 Penn street.
123	John E. Leonard.....	"	37	40 Dewey street.
124	Christopher Carpenter...	"	47	105 Chapin avenue.
125	Walter S. Browne.....	"	28	28 Oak street.
126	Fred Owens.....	Driver.....	31	Fire station.

Second size Hayes Truck, built by the La France Fire Engine Company, Elmira, N. Y., in 1889. Placed in service January 1, 1890. Wrecked by falling walls at the fire on the premises of the J. E. Barnaby Co., December 13, 1890. Rebuilt by the La France Fire Engine Co., and placed in service February 12, 1891. Drawn by two horses, and weighs, ready for service, 7,000 pounds. Longest Ladder, 65 feet extension.

UNION

HOOK AND LADDER COMPANY NO. 3.

HOUSE ON DOUGLAS AVENUE.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
103	James C. Hubbard.....	Captain.....	57	262 Orms street.
130	George Golding.....	Lieutenant.....	53	508 Chalkstone avenue.
131	Edwin H. Day.....	Ladderman.....	63	513 Chalkstone avenue.
132	Thomas H. Gibbons.....	".....	41	127 Douglas avenue.
183	William J. Young.....	".....	45	478 Smith street.
218	William H. Holbrook.....	".....	57	14 Balaklava street.
135	Christopher J. Read, Jr.....	".....	35	668 Chalkstone avenue.
136	William A. Berry.....	Driver.....	39	141 Holden street.

Seagrave Trussed Truck built by the Seagrave Manufacturing Company, Columbus, O., in 1901. Drawn by two horses, and weighs, ready for service, 4,600 pounds. Longest ladder, 55 feet extension. Placed in service November 5, 1901.

JOHN B. CHACE

HOOK AND LADDER COMPANY NO. 4.

HOUSE ON WICKENDEN STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
104	Adelbert A. Hopkins.....	Captain.....	49	37 Elbow street.
140	Edmund B. Peck.....	Lieutenant.....	56	187 Wickenden street.
141	William S. Robinson.....	Ladderman.....	42	24 Arnold street.
142	James E. Hall.....	".....	38	330 Wickenden street.
143	Joseph F. McDonald.....	".....	32	222 Transit street.
144	Martin Kane.....	".....	35	25 George street.
145	Walter B. Leonard.....	".....	39	204 Power street.
146	Bernard J. Mulcahey.....	Driver.....	27	Rear 94 Pike street.

Seagrave Trussed Truck built by the Seagrave Manufacturing Company of Columbus, O., in 1902. Drawn by two horses, and weighs, ready for service, 4,600 pounds. Longest ladder, 55 feet extension. Placed in service April 2, 1902.

WILLIAM H. LUTHER

HOOK AND LADDER COMPANY NO. 5.

HOUSE CORNER PUBLIC AND BURNSIDE STREETS.

RADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
210	James R. Davis.....	Captain.....	53	35 Chester avenue.
211	Charles O. Messinger.....	Lieutenant.....	48	28 Broom street.
212	Felix Rush.....	Ladderman.....	42	202 Bay street.
213	Edward J. Hall.....	".....	32	130 Oxford street.
214	J. Edward Conneely.....	".....	26	764 Potter avenue.
215	George T. Lawder.....	".....	45	24 Warwick avenue.
216	William H. Buffum.....	".....	62	Fire Station.
217	Byron I. Keech.....	Driver.....	50	433 Prairie avenue.

Roller Frame Truck, built by Moulton & Son, Providence, R. I., in 1885. Drawn by two horses, and weighs, ready for service, 5,000 pounds. Longest ladder, 59 feet, Bangor Extension. Placed in service April 1, 1885.

HAYES

HOOK AND LADDER COMPANY NO. 6.

HOUSE CORNER ATWELLS AVENUE AND AMERICA STREET.

RADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
220	John Hutchison.....	Captain.	42	39 Brighton street.
221	William E. Sullivan.....	Lieutenant.....	41	171 Federal street.
222	John E. Meledy.....	Ladderman.....	41	150 Penn street.
223	Michael H. Farrell.....	".....	40	181 Julian street.
224	Robert H. McDonald.....	".....	33	13 Vernon street.
225	John H. Carley.....	".....	38	71 Kenyon street.
226	James H. Penney.....	".....	42	73 Marshall street.
227	James McCartin.....	Driver.....	50	18 Penn street.

Second size Hayes Truck, built by the La France Fire Engine Company, Elmira, N. Y., in 1892. Drawn by three horses, and weighs, ready for service, 7,500 pounds. Longest ladder, 65 feet extension. Placed in service September 1, 1892.

HOOK AND LADDER COMPANY NO. 7.

HOUSE CORNER HOPE AND OLNEY STREETS.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
250	Charles J. Connor	Captain	50	Fire Station.
251	John F. Stackpole	Lieutenant.....	53	24 Olney street.
252	John D. Murphy	Ladderman . . .	37	266 Morris avenue.
253	Edward S. Doherty	"	39	250 Doyle avenue.
254	James P. O'Sullivan	"	39	276 Doyle avenue.
255	Benjamin N. Brown	"	46	75 Doyle avenue.
256	Joseph F. Burke	"	25	2 Esten street.
257	Nicholas A. Falck	Driver	36	59 East George street.

Seagrave Trussed Truck, built by the Seagrave Manufacturing Company, Columbus, O., in 1900. Drawn by two horses, and weighs, ready for service, 4,850 pounds. Longest ladder, 60 feet extension. Placed in service April 3, 1900.

HOOK AND LADDER COMPANY NO. 8.

HOUSE CORNER LAUREL HILL AVENUE AND LABAN STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
68	Fred A. Wallace	Captain	49	449 Plainfield street.
99	Charles H. Carpenter	Lieutenant.....	37	491 Plainfield street.
138	George H. Thurston	Ladderman.....	40	41 Whittier avenue.
149	Isaac W. Wyatt	"	44	Fire Station.
259	William H. Collins	Driver	36	179 Laban street.

Seagrave Trussed Truck, built by the Seagrave Manufacturing Company, of Columbus, O., in 1902. Drawn by two horses, and weighs, ready for service, 4,600 pounds. Longest ladder, 55 feet extension. Placed in service April 2, 1902.

FIRE ALARM TELEGRAPH.

CITY HALL.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
	Charles G. Cloudman.....	Superintendent.	66	339 Pine street.
19	Arthur D. Sayward.....	Assistant Supt..	37	179 Clifford street.
249	Herbert H. Totten.....	Operator	41	135 Burnside street.
230	Thomas F. Carey.....	"	47	75 Brook street.
209	Burrill Arnold.....	"	40	393 Friendship street.
97	Charles E. Hill.	"	40	171 Pleasant street.
69	William H. Leighton....	Lineman	40	191 Carpenter street.
109	Ronald McAdam.....	"	33	27 South Court street.

Gamewell Central Office System. Placed in service January 3, 1898.

PROVIDENCE PROTECTIVE COMPANY NO. 1.

HOUSE ON RICHMOND STREET.

BADGE.	NAME.	POSITION.	AGE.	RESIDENCE.
	Charles H. Swan.....	Captain	66	271 Friendship street.
	David G. Knott.....	Lieutenant.....	49	Fire Station.
	George T. Lonergan	Coverman.....	37	164 Hospital street.
	Walter A. C. French.....	"	31	Fire Station.
	Frederick W. H. Goffe....	"	31	14 Temple street.
	James E. O'Neil.....	"	29	383 Sayles street.
	Hugh P. Wood.....	"	28	Fire Station.
	Robert H. Watson	"	30	19 Peirce street.
37	Manual Burgess.....	Driver	41	433 Richmond street.
100	Ira B. Booth.....	"	42	109 Ridge street.

No. 1 Wagon, built by Gleason & Bailey, Seneca Falls, N. Y., in 1902. Drawn by two horses, carries 26 tarpaulins, and weighs, ready for service, 4,600 pounds. Placed in service January 13, 1902.

No. 2 Wagon, built by Archibald Martin, of Providence, R. I., in 1891. Rebuilt by Archibald Martin, in 1902. Drawn by two horses, carries 21 tarpaulins, and weighs, ready for service, 3,200 pounds. Placed in service April 1, 1891.

SUMMARY OF EXPENDITURES

COMPANY.	Salaries.	Grain.	Hay and Straw.	Horse Shoeing.	Laundry Work.	Repairs and Alterations.	Fuel.	Gas.	Veterinary.
Hose No. 1.....	\$8,599 70	\$127 24	\$226 48	\$64 52	\$29 67	\$9 30	\$230 23	\$69 96	\$6 00
Engine No. 2.....	9,023 42	202 35	429 13	108 65	25 96	82 99	376 25	153 72	51 25
Hose No. 3.....	8,487 84	120 42	180 52	68 06	21 70	337 05	281 97	107 10	19 00
Hose No. 4.....	8,100 82	107 46	191 15	59 61	33 27	330 87	348 79	160 02	22 00
Engine No. 5.....	9,819 45	190 82	332 58	117 95	23 59	152 39	310 23	160 86	.....
Hose No. 6.....	8,267 64	133 55	167 79	52 50	23 82	78 71	219 81	94 50	11 00
Hose No. 7.....	8,543 61	130 78	157 40	61 50	26 83	671 83	312 93	158 13	3 00
Engine No. 8.....	10,596 86	191 18	340 39	101 97	28 83	23 85	425 40	198 87	65 00
Hose No. 9.....	8,264 59	104 66	142 63	50 32	29 25	360 30	283 94	172 83	.....
Engine No. 10.....	9,807 60	262 20	301 30	79 00	26 00	19 50	256 45	87 15	10 00
Hose No. 11.....	8,452 64	104 78	205 13	43 50	32 41	14 04	273 00	146 37	37 00
Engine No. 12.....	9,852 79	204 75	364 64	104 26	27 38	151 96	282 09	22 20	108 00
Hose No. 13.....	8,028 23	105 99	100 77	42 00	19 96	136 80	285 92	104 79	.....
Engine No. 14.....	9,809 88	213 45	400 84	116 50	26 45	155 52	346 12	106 05	12 00
Hose No. 15.....	8,784 00	83 92	225 84	45 38	27 67	76 74	310 39	131 88	8 00
Engine No. 16.....	9,794 56	201 19	351 51	72 30	26 14	21 24	386 88	115 29	.....
Hose No. 17.....	8,739 67	123 05	200 63	46 98	22 30	169 73	260 72	96 00	33 00
Engine No. 18.....	9,811 96	237 65	310 28	118 37	25 61	36 72	325 97	106 63	69 75
Engine No. 19.....	9,490 04	279 24	364 13	124 70	28 84	71 18	500 33	120 54	36 00
Hose No. 20.....	6,842 99	183 08	322 43	37 63	16 71	5 55	221 16	60 09	.....
H. & L. No. 1.....	11,554 76	173 29	308 49	77 26	36 26	15 65	230 23	69 96	72 00
H. & L. No. 2.....	8,747 64	163 10	256 01	73 64	26 34	99 41	309 30	80 01	14 00
H. & L. No. 3.....	8,688 34	135 55	237 82	51 15	22 71	32 34	281 73	107 49	36 00
H. & L. No. 4.....	8,365 25	140 30	169 32	75 44	22 95	17 40	381 20	149 10	17 00
H. & L. No. 5.....	8,299 15	105 60	113 89	36 25	22 00	3 50	252 79	154 35	18 00
H. & L. No. 6.....	8,615 73	156 99	213 96	65 63	23 36	110 80	283 94	172 83	31 00
H. & L. No. 7.....	8,433 87	115 46	172 64	61 35	24 57	1 85	298 34	160 86	7 00
H. & L. No. 8.....	5,500 65	99 26	150 95	34 25	13 68	2 75	284 30	63 24	.....
Protective No. 1.....	2,195 41	225 96	327 66	120 65	33 33	1 30	312 30	158 13	25 00
Fire Alarm Teleg'ph.	9,529 79	87 92	156 35	46 00	24 43	57 42	170 02	46 60	31 00
Chief and Assistants	7,625 75	263 18	451 05	159 47	14 65	212 80	230 24	69 96	40 00
Commissioners.....	5,484 98	51 48	91 50	46 75	.....	20 58	122 99	11 42	2 00
Pension Fund.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Miscellaneous.....	560 00	35 34	53 01	21 00	.....	29 48	36 63	.....	75 00
	273,979 61	5,059 19	8,078 82	2,384 54	787 27	3,511 55	9,432 59	3,617 13	838 00
C.R.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals.....	273,979 61	5,059 19	8,078 82	2,384 54	787 27	3,511 55	9,432 59	3,617 13	838 00

BY COMPANIES.

Hose and Equipments.	Harness Sup- plies and Repairs.	Extra Horses.	Ice.	Water.	Printing and Stationery.	Furniture and Bedding.	Disabled Firemen.	Rent.	Horses.	Miscellan- eous Expen- see.	TOTAL.
\$25 00	\$63 05		\$9 25	\$40 69			\$76 60			\$58 45	\$9,636 14
25 00	82 75	\$27 29	9 25	40 00					\$775 00	114 92	12,127 93
	45	8 00	9 25	30 00			75 13			38 06	9,784 55
	35		9 25	25 00						47 54	9,436 13
	1 45	31 50	9 20	35 00		\$48 80				56 12	11,289 94
	5 05		9 25	50 00		25 35	175 23			67 48	9,381 68
	2 25		9 25	30 00						60 70	10,168 21
	16 75	61 02	9 25	40 00		26 50	127 95	\$25 00		100 89	12,379 71
10 00	6 70		9 25	20 00		20 00	71 16			48 06	9,593 69
	3 25	59 14	9 25	30 00		10 14	22 28			87 45	11,071 31
56 00	6 60	18 00	9 25	30 00			105 52		275 00	61 58	9,869 82
114 00	20 35		9 25	10 00		121 00				79 07	11,471 74
	2 60		9 25	25 00		1 47	7 05			47 65	9,577 48
	3 00	58 76	9 25	40 00						76 91	11,374 73
25 00	2 80		9 25	30 00						84 36	9,845 23
	7 55	31 79	9 35	35 00		32 81				71 51	11,157 62
	95	33 50	9 20	30 00			70 56		825 00	43 82	10,705 71
	23 35	54 29	9 25	50 00			45 54			44 45	11,268 82
30 00	75	64 02	9 25	40 00		39 78			515 00	115 84	11,828 64
	20			35 00		9 68				24 16	7,759 28
43 15	10 43	21 00	9 25	40 69			88 70			94 74	12,825 71
15 00	2 95	25 52	9 25	25 00		49 42	8 04	25 00	250 00	64 14	10,244 27
	13 90	28 37	9 25	18 29			34 04			36 22	9,731 20
65 00	10 25	28 00	9 25	50 00						44 50	9,544 96
1 50	1 60	38 79	9 25	40 00						39 11	9,135 78
	2 50	43 64	9 25	20 00			36 13		250 00	50 75	10,086 51
15 00	15 25	25 37	9 20	35 00		24 50	63 72			36 97	9,500 96
	3 60	25 52	9 25	20 56						36 70	6,304 71
	17 05	12 00	9 25	35 00						83 44	3,556 48
	40		9 25	40 00	\$5 20	5 58				4,075 94	14,285 90
46 00	35 00	24 00	9 25		7 00	134 27				62 03	9,385 25
	46 40	124 00	9 25		52 24	5 00				10 83	6,979 42
										6,866 91	6,866 91
1,845 50	153 46			30,040 70	125 65	392 51				358 48	33,726 76
2,315 00	562 99	843 52	286 60	31,030 93	190 09	947 31	1,007 66	50 00	2,890 00	13,189 78	361,002 58
118 40	10 00	80 00				20 00			835 00	108 53	1,171 93
2,196 60	552 99	763 52	286 60	31,030 93	190 09	927 31	1,007 66	50 00	2,055 00	13,081 25	\$359,830 65

PROVIDENCE PERMANENT FIREMEN'S RELIEF ASSOCIATION.

OFFICERS FOR THE YEAR 1903-1904.

GEORGE A. STEERE, *President.*
GEORGE F. BATTEY, *Vice-President.*
WILLIAM H. JOHNSON, *Secretary.*
HOLDEN O. HILL, *Treasurer.*

RESOURCE COMMITTEE.

Owen McElroy, *Chairman.*
John D. Murphy, Clarence C. Thomas, Fred. A. Wallace,
Oscar F. Millett, Michael H. Cavey, Harry Howe.

RELIEF COMMITTEE.

Gilbert S. Inman, *Chairman.*
Clarence E. Horton, George A. Capron.

FINANCE COMMITTEE.

George F. Battey, *Chairman.*
Clarence C. Thomas, Adelbert A. Hopkins.

BURIAL LOT COMMITTEE.

Clarence C. Thomas, *Chairman.*
William J. Young, Clarence E. Horton.

TREASURER'S REPORT.

RECEIPTS.

Amount of fund, April 1, 1903.....		\$38,030 62
Dues from members.....	\$1,358 50	
Assessments for death benefits.....	2,448 00	
Interest on investments.....	1,302 24	
Donations.....	25 00	
Balance proceeds fourteenth annual ball.....	4 00	5,137 74
		<hr/>
		\$43,168 36

EXPENSES.

Benefits sick and injured members.....	\$2,380 52	
Death benefits.....	3,800 00	
Printing and stationery.....	11 35	
Floral tributes.....	15 00	
Filling vases at North Burial Ground.....	8 00	
Interest on note.....	4 17	\$6,219 04
Amount of fund January 1, 1904.....		<hr/>
		\$36,949 32

1904.]

CITY DOCUMENT.

[No. 8.]

ANNUAL REPORT
OF THE
OVERSEER OF THE POOR
FOR THE YEAR
1903.

[Presented February 1, 1904.]



The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
63 Washington Street.
1904.

REPORT.

OFFICE OF THE OVERSEER OF THE POOR,
PROVIDENCE, February 1, 1904.

TO THE HONORABLE THE CITY COUNCIL OF THE CITY OF
PROVIDENCE:

GENTLEMEN: The undersigned, the Overseer of the Poor, presents this his fourteenth annual report to your honorable body.

The report will give in detail the number of persons assisted, together with their nationality, and the total expenditures of the department for the year ending December 31, 1903.

The following table shows the number of new cases investigated and assisted each month, and also the number of old cases re-investigated and assisted:

1903.		1902.	
NEW CASES INVESTIGATED.		OLD CASES INVESTIGATED.	
January.....	97	January.....	209
February.....	80	February.....	33
March.....	44	March.....	16
April.....	40	April.....	10
May.....	32	May.....	11
June.....	29	June.....	9
July.....	33	July.....	6
August.....	32	August.....	12
September.....	43	September.....	18
October.....	81	October.....	27
November.....	95	November.....	23
December.....	124	December.....	189
Total.....	730	Total.....	563

There were 730 new families assisted during the year, or 13 more than in 1902. The 563 re-investigated cases were assisted some time during the past fourteen years. This was 64 more than in 1902.

Number Assisted Each Month for the Past Ten Years.

MONTHS.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.
January.....	5,187	2,266	1,596	2,478	2,942	2,807	1,864	2,009	2,293	2,296
February.....	7,130	2,032	1,724	2,683	3,219	2,659	1,848	2,053	1,834	2,406
March.....	7,220	2,414	1,876	2,539	2,690	2,401	1,681	2,010	1,760	2,212
April.....	3,144	1,888	1,163	1,291	1,370	1,450	1,401	1,658	1,106	1,298
May.....	2,383	977	744	897	1,146	847	1,101	743	549	477
June.....	1,887	894	804	796	1,060	769	732	808	703	486
July.....	1,690	772	811	759	1,019	740	769	764	684	425
August.....	1,679	698	753	865	909	779	755	685	419	409
September.....	1,601	679	885	834	911	737	678	679	1,011	436
October.....	1,626	794	1,429	1,015	998	803	1,153	1,073	1,416	637
November.....	1,703	751	1,665	1,388	1,409	762	1,540	1,696	1,753	1,532
December.....	2,266	1,946	2,707	2,522	2,625	1,704	2,236	2,385	2,603	1,925

The number of applicants for relief was more than in 1902.

EXPENDITURES.

The total expenditures for the year 1903 were.....	\$29,924 88
The total receipts	9,296 22
Net expenses	\$20,628 66

The net expenditures of \$20,628.66 were expended for the following purposes:

Outdoor relief	\$7,645 59
Transportation	253 03
Burials	948 00
Medical attendance	600 00
Rhode Island Hospital	326 71
Charity Building Wood Yard.....	8,375 49
Salary	2,000 00
Miscellaneous	265 01
Cash	214 80
Total	\$20,628 66

Appended are the expenditures for the past three years:

YEARS.	1901.	1902.	1903.
Total.....	\$20,518 15	\$19,911 27	\$20,628 66
Outdoor relief.....	7,471 49	7,792 60	7,845 59
Transportation.....	333 65	450 84	253 06
Burials.....	1,172 00	948 00	948 00
Medical attendance....	605 00	600 00	600 00
Rhode Island Hospital.....	411 00	241 00	326 71
Charity Building and Wood Yard.....	8,029 11	7,527 13	8,375 49
Salary.....	2,000 00	2,000 00	2,000 00
Miscellaneous.....	192 27	104 21	265 01
Cash	303 63	247 49	214 80

NUMBER ASSISTED.

The number assisted during the year was 8,939, of which 6,023 were Americans and 2,916 were foreigners.

The following number of persons were assisted during the past ten years:

1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.
12,112	6,389	6,472	8,310	8,439	5,968	7,817	8,587	8,712	8,939

During the year your Overseer visited 1,068 families at their homes.

The following table shows the amount expended by the department each month during the year:

Expenditures in Detail for Outdoor Relief for Year 1903.

MONTHS.	Groceries.	Coal.	Hospital.	Transportation.	Cash.	Burials.	Shoes.	Physician.	Miscellaneous.	Total.
January.....	\$685 76	\$561 10	\$81 00	\$29 79	\$18 00	\$106 00	.....	.....	\$15 92	\$1,498 57
February....	632 17	319 60	55 71	11 25	30 40	101 00	\$93 80	.....	8 25	1,252 18
March.....	660 70	262 30	11 00	26 80	38 65	99 00	.....	\$150 00	7 25	1,255 70
April.....	502 03	53 75	27 00	1 00	7 00	56 00	14 30	.....	5 90	666 98
May.....	453 00	.....	37 00	17 00	16 50	119 00	.....	.....	5 50	648 00
June.....	434 25	.....	14 00	53 45	19 00	94 00	.....	150 00	7 65	772 35
July.....	390 34	.....	.....	.....	10 00	63 00	.....	.....	4 00	467 34
August.....	384 84	.....	17 00	30 22	22 75	41 00	.....	.....	5 00	500 81
September..	402 59	.....	27 00	11 00	8 25	44 00	.....	150 00	8 00	650 84
October.....	376 00	.....	15 00	13 75	22 32	147 00	.....	.....	7 48	581 55
November...	447 58	.....	30 00	42 80	8 83	34 00	26 70	.....	7 24	597 25
December...	443 90	203 13	12 00	16 00	13 00	44 00	296 75	150 00	182 82	1,361 60
Total.....	\$5,814 16	\$1,399 88	\$326 71	\$253 06	\$214 80	\$948 00	\$431 53	\$600 00	\$265 01	\$10,253 17

CHARITY BUILDING.

During the year 103 women and 71 children were furnished with a temporary home, some remaining only a day, and others longer, as the cases required.

On account of the crowded condition of the different Homes in the city we were obliged to keep the children longer in the building than usual. Of the 71 children brought to the building 9 remained one day; 11 two days; 19 four days; 12 sixteen days; 8 twenty days; 5 thirty days; 5 three months and 2 five months.

A table showing the number of meals furnished to women and children, also their nationality, and the total expense of the same:

Charity Building.

MONTHS.	No. of Meals to Women.	No. of Meals to Children.	Total No. of Meals.	Total Expenditures.	No. of Americans.	No. of Foreigners.	Total No. of Persons.
January.....	412	263	675	\$507 37	17	9	26
February.....	386	234	620	411 11	5	6	11
March.....	280	329	618	357 94	8	4	12
April.....	365	263	628	315 09	5	5	10
May.....	324	288	612	356 58	8	2	10
June.....	275	453	728	517 37	2	5	7
July.....	216	297	513	312 36	6	4	10
August.....	258	416	674	364 86	8	6	14
September.....	332	611	943	341 63	8	9	17
October.....	228	621	849	349 25	3	6	9
November.....	282	443	725	303 92	10	12	22
December.....	411	566	977	409 38	19	7	26
Total.....	3,778	4,784	8,562	\$4,547 46	90	75	174

**Registry of Meals, from 1878 to 1903, inclusive, Also the
Number of Women and Children Lodged.**

YEARS.	Number of Women.	Number of Children.	Total.	Total Number of Meals.
1878, eight months.....	137	28	165	1,329
1879.....	198	25	223	1,167
1880.....	134	33	167	1,482
1881.....	123	39	162	3,070
1882.....	157	51	208	2,600
1883.....	161	57	218	1,917
1884.....	177	58	235	2,956
1885.....	163	60	223	2,062
1886.....	138	24	162	2,475
1887.....	119	54	173	2,553
1888.....	143	89	232	2,378
1889.....	157	76	233	2,746
1890.....	128	65	193	1,996
1891.....	223	100	323	1,480
1892.....	167	52	219	906
1893.....	143	45	188	2,114
1894.....	131	61	192	3,751
1895.....	150	54	204	4,359
1896.....	172	42	214	5,717
1897.....	169	102	271	6,201
1898.....	159	104	263	5,815
1899.....	177	121	298	5,463
1900.....	129	111	240	4,103
1901.....	167	90	257	6,369
1902.....	118	95	213	5,988
1903.....	103	71	174	8,562
Total.....	3,943	1,707	5,650	89,568

The above table only shows the number of meals furnished women and children. The number of meals given to men was 123,843, which makes the total number of meals given since the building was established 213,411.

WOOD YARD.

The yard certainly did a great good during the early part of the year when coal and in many instances wood was so hard to get. During the first three months of the year there were more orders received than in any six months of any previous year, and, with the yard so thoroughly equipped for such an emergency, we found little trouble in supplying the demand. Many of our customers were so afraid that they would not be able to receive any coal during the winter months made their orders larger than usual, and notwithstanding that demand, we were able, by putting on extra teams, to meet the wants of many hundred others who never before patronized this branch of our work, and who were obliged on account of the scarcity of wood in the other yards of the city, to come to this department in order that their fuel wants would be supplied.

There were also hundreds of families of moderate means that found themselves unable to purchase wood because of the advanced price wood had taken on account of the great demand for the same. To meet the wants of these families the Committee on Poor decided, after giving the matter careful consideration, to sell from one to two feet of wood at cost, the yard assuming the loss of sawing and preparing the same for delivery.

Some seven hundred families took advantage of this reduction and ordered accordingly.

The Chamber of Commerce Committee also did excellent and systematic work in supplying wood to many families that were able to pay a little and to many others that were not able to pay anything.

As a whole the yard was a very busy place during the winter months and the men who sought the lodge for a night's shelter were kept very busy the next day, and, the yard assisted this committee in a small way by sawing the wood and preparing the same for delivery. To their

credit it should be said, they worked very dilligently during their short stay in the yard to keep the bins sufficiently filled to meet all the demands during that trying period.

While the yard and office is not as centrally located as we would wish for the accommodation of our customers we would ask, however, their continued interest in the same by using the telephone and mail in sending in their orders for wood.

Charity Wood Yard.

MONTHS.	Total Expenditures.	Total Receipts.	Net Expenditures.	Net Receipts.	Amount Paid for Labor.	Number of Persons Lodged.	Americans.	Foreigners.	Total Number of Meals.
January	\$5,282 98	\$1,823 83	\$3,459 15	.....	\$569 58	1,247	830	417	2,913
February...	1,913 17	608 05	1,305 12	.....	345 25	1,428	910	518	2,964
March.....	727 68	987 97	.....	\$260 29	330 91	1,312	903	409	2,228
April.....	637 03	1,022 10	.....	385 07	332 08	711	521	190	1,532
May.....	350 88	610 85	.....	259 97	251 48	.....	.....	.....	.....
June.....	534 79	483 60	51 19	.....	183 84	.....	.....	.....	.....
July.....	311 07	373 97	.....	62 90	169 17	.....	.....	.....	.....
August.....	354 74	239 60	115 14	.....	212 85	.....	.....	.....	.....
September..	361 89	398 75	.....	36 86	220 00	.....	.....	.....	.....
October.....	600 10	1,549 04	.....	948 94	289 04	214	148	66	400
November...	1,061 61	639 25	442 36	.....	333 17	1,162	759	403	1,998
December...	968 31	569 21	409 10	.....	335 75	1,198	762	436	2,202
Total.....	\$13,124 25	\$9,296 22	\$5,782 06	\$1,954 03	\$3,573 12	7,272	4,833	2439	14,237

Occupation of Men Lodged.

MONTHS.	Cooks.	Mechanics.	Bakers.	Masons.	Painters.	Jewelers.	Printers.	Laborers.	Weavers.	Spinners.	Moulders.	Blacksmiths.	Sailors.	Carpenters.	Shoemakers.	Total.
January....	18	15	3	30	49	9	25	340	88	40	16	30	42	32	16	1,247
February..	26	57	10	9	41	8	9	1,085	45	54	7	12	37	11	17	1,428
March.....	20	35	7	14	17	5	14	979	76	55	9	20	24	16	21	1,312
April.....	11	1	10	10	1	3		624	11	4	11	2	10	10	3	711
May.....																
June.....																
July.....																
August....																
September																
October....	1	5	10	3	7	6	3	132	27	8	1		4	2	5	214
November.	21	46		3	38	13	4	781	107	83	14	12	17	3	20	1,163
December.	12	49	10	32	39	3	1	865	94	52	13	6	13	3	6	1,196
Total	98	218	41	101	201	45	59	5,306	448	296	71	82	147	77	82	7,272

Since the opening of the yard in May, 1878, the registry by years of the number of tramps has been as follows:

1878.....	1,248
1879.....	1,143
1880.....	634
1881.....	603
1882.....	1,135
1883.....	1,205
1884.....	1,498
1885.....	1,352
1886.....	1,886
1887.....	1,464
1888.....	1,710
1889, and six days in January, 1890.....	2,538
1890.....	1,868
1891.....	1,914
1892.....	1,902
1893.....	3,892
1894.....	5,262

1895.....	3,025
1896.....	3,448
1897.....	3,700
1898.....	3,364
1899.....	2,439
1900.....	4,433
1901.....	5,799
1902.....	7,014
1903.....	7,272

Since the change of the office from Fountain street to its present location on Eddy street, a better and more efficient supervision of the work is attained than formerly. The entire department is now concentrated and a better oversight of the work is accomplished.

Formerly the wood yard and lodge were in one part of the city and the office in another, thereby entailing extra work in visiting the same and still not accomplishing the good results as is being done at present by having the two together.

The removing of the department from the centre of the city has also, to our surprise, taken away from the office many applicants who came in many instances out of curiosity to see how easily relief was doled out, and in other instances to tell their tale of woe, only to be referred to some other department of the city government for relief.

Complaints are daily made, however, not only from the aged and sickly applicants for relief, but from some of our best citizens in the city, who have business with the office, from the inconvenience and loss of time incurred in reaching the same.

During six months of the year there is no office in the city government that has as many calls as this office, and the women and men associated with the different charities of the city are continually complaining of the present out of the way location, but, as the department is now settled at a great expense to the city, there is no other alternative but to use the telephone, etc., in communicating with the office when a visit cannot, for lack of time, be made.

DEXTER ASYLUM.

The following are the statistics of the Dexter Asylum for the year 1903:

Number of inmates January 1, 1903.....		118
Admitted during the year.....	•	42
Total		160
Discharged during the year.....	23	
Died during the year.....	19	
Total		42
Remaining January 1, 1904.....		118
Average number of inmates.....	116	
Number working for board and board of children....	3	
Total number of inmates.....		121
Whole expense for the support of the Asylum and farm		\$39,738 22
Received from products and other sources, \$26,510 28		
Received from Dexter Donation.....	13,247 94	
Total		\$39,758 22

A table showing by months the number admitted, the number discharged, the number of deaths, and the total number remaining, both males and females:

Dexter Asylum Record for 1903.

MONTHS.	Admissions.	Discharges.	Deaths.	Remaining.	Males.	Females.	Americans.	Foreigners.
January.....	3	0	1	120	71	49	61	59
February.....	3	3	0	120	70	50	61	59
March.....	2	2	4	116	67	49	58	58
April.....	6	2	1	119	69	50	56	63
May.....	0	7	0	112	67	45	52	60
June.....	6	2	0	116	70	46	56	60
July.....	1	2	1	114	69	45	53	61
August.....	7	1	4	116	69	47	53	63
September.....	2	1	3	114	67	47	52	62
October.....	3	2	1	114	69	45	52	62
November.....	5	1	3	115	69	46	51	64
December.....	4	0	1	118	70	48	52	66
Total.....	42	23	19					

There were nine less admitted during the year than in 1902, and four more discharged. The number of deaths was four less than in the previous year.

1902.				1903.			
MONTHS.	Expenditures.	Receipts.	Draft on Donation	MONTHS.	Expenditures.	Receipts.	Draft on Donation
February..	\$8,953 30	\$5,170 57	\$3,782 73	February..	\$10,604 54	\$3,633 18	\$6,971 36
May.....	8,496 31	6,309 46	2,186 85	May.....	10,142 17	8,890 08	1,252 09
August....	9,823 26	6,900 32	2,922 94	August....	9,853 96	8,167 40	1,686 56
November..	9,535 78	4,949 06	4,586 73	November..	9,157 56	5,819 62	3,337 93
Total....	\$36,807 65	\$23,329 40	\$13,478 25	Total....	\$39,758 22	\$28,510 28	\$13,247 94

A new floor has been laid in the hallway of the female hospital and the floors of the institution have been shellacked; painting and varnishing also have been done in the institution.

The farm wall has been repaired, and the front steps of the institution have been repainted.

A new fence has been built on the south side of the west garden, and the coal houses have been shingled.

The institution coal house, ice house, corn barn and horse barn have all been painted.

A new copper water heater has been placed in the basement of the institution.

The driveways have been top-dressed and some concreting has been done.

General repairs on all the greenhouses have also been made.

MEDICAL SERVICE.

The report of the physicians for the year is as follows:

First, that they have made 341 house visits, and held 80 office consultations. Second, that of the 246 patients under care and treatment, 79 have recovered, 28 improved, 9 unimproved, 4 sent to Insane Hospital, 11 died, 68 sent to State almshouse, 6 to Dexter Asylum, 14 to Rhode Island Hospital, and 24 cases the result was unknown, 1 out of the city. Third, the character of the cases treated: 111 were acute, 134 chronic. Fourth, that 135 were males and 111 females. Fifth, that 226 were white and 20 colored. Sixth, that 210 were adults and 36 children. Seventh, 79 were married and 109 single; 37 widows and 12 widowers; 3 divorced and 6 unknown. Eighth, that 116 that applied were foreigners and 130 Americans.

CHRISTMAS BASKET.

It has become a fixed work of the department through the generosity of our citizens to furnish annually a "Christmas Basket" to all the worthy families of the city. This year we were able to do more than in previous years on account of the generous response to the appeal issued through the *Providence Journal*.

The names and addresses of 280 families were furnished by the different charitable societies of the city and 300 more by this office, making in all 580 families that received an overladen basket of eatables that, in the majority of cases, lasted a few days over Christmas.

To the many contributors to the "Christmas Basket" and the *Providence Journal Co.* I wish to express my sincere thanks.

The total amount realized was \$1,016.21.

In conclusion I wish to express my thanks to the Mayor, the Committee on Poor, the members of the City Government, the Police Department, the Society for Organizing Charity and the many private charitable societies of the city for their many courtesies shown me during the year.

Respectfully,

MATTHEW J. CUMMINGS,

Overseer of the Poor.

1904.]

CITY DOCUMENT.

[No. 9.]

ANNUAL REPORT

OF THE

Commissioner of Public Works

UPON

BRIDGES,

FOR THE YEAR 1903.

[Presented February 1, 1904.]



The Providence Press:

SNOW & FARNHAM, CITY PRINTERS,

63 Washington Street,

1904.

REPORT.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS,
CITY HALL, PROVIDENCE, R. I., January 1, 1904.

TO THE HONORABLE THE CITY COUNCIL OF THE CITY OF
PROVIDENCE:

In compliance with the ordinances relative to the bridge department the following report of the operations of the department from January 1, 1903, to January 1, 1904, is presented:

The amount expended for public bridges during the year was as follows:

From the appropriation for 1902-1903.....	\$20,207 43
From the appropriation for 1903-1904.....	5,023 92
Total amount expended.....	<u>\$25,231 35</u>

The unexpended balance of the appropriation for the fiscal year ending September 30, 1903, on hand was \$57.96.

The amount of bills rendered the City Treasurer for collection on account of sale of old material was \$289.86.

The condition of the appropriation for 1903-1904 is as follows:

Amount appropriated for the fiscal year ending September 30, 1904.....	\$25,000 00
Amount expended to January 1, 1904.....	5,023 92
Unexpended balance January 1, 1904.....	<u>\$19,976 08</u>

The following table shows the amount of bills approved, the transfer of supplies, and the total expenses for maintenance of the various bridges during the year 1903:

ACCOUNTS.	BILLS APPROVED.			MATERIAL TRANSFERRED AND SOLD.		Total Expense for Maintenance.
	For Salaries.	For all other purposes.	Total.	DR.	CR.	
Adelaide avenue bridge abutments.....			\$5,998 84	\$3 97		\$6,002 81
Acorn street bridge.....			4 10			4 10
Atwells avenue bridge.....			11 51			11 51
Barn expenses.....			565 97			565 97
Branch avenue bridge.....			7 20			7 20
Branch avenue culvert.....			25 72			25 72
Building at city yard.....			11 41			11 41
Burnside bridge.....			19 96			19 96
Car fares.....			25 00			25 00
Cemetery street bridge.....			15 99			15 99
Charles street R. R. bridge.....			51 40			51 40
Crawford street bridge.....			496 65	48 28		544 93
Eagle street bridge.....			22 49	2 75		25 24
Exchange bridge.....			22 38			22 38
Francis street bridge.....			137 47			137 47
Geneva bridge.....			8 80			8 80
Hawkins street bridge.....			10 40			10 40
Horses, wagons, etc.....			146 55			146 55
Manton bridge.....			3 86			3 86
Manton avenue bridge.....			247 34			247 34
Mill street bridge.....			35 17	1 97		37 14
Nash lane bridge.....			16 07		66	16 73
Park street bridge.....			14 99	3 87		18 86
Point street bridge.....	\$3,964 00	\$2,176 82	6,140 82	67 17	\$78 60	6,129 39
Promenade street bridge.....			41 70			41 70
Randall street bridge.....			28 68			28 68
Red bridge.....	2,164 50	1,157 77	3,322 27		19 78	3,302 49
Smith street bridge.....			10 30			10 30
Smithfield avenue bridge.....			61 75	1 35		63 10
Stevens street bridge.....			7 15			7 15
Sundries.....			659 44		50	658 94
Telephone lines.....			10 72			10 72
Tools.....			427 14			427 14
Valley street, north span.....			68 95	18 05		87 00
Valley street, south span.....			50 41	16 57		66 96
Veazie street bridge.....			8 60	1 44		10 04
Wanskuck bridge.....			25 21	53 43		78 64
Washington bridge.....	2,128 18	3,545 97	5,674 15	96 30		5,770 45
Washington bridge house rent.....			140 00			140 00
Washington row bridge.....			11 86			11 86
West river street bridge.....			10 20			10 20
Weybosset bridge.....			40 89			40 89
Total.....						\$24,856 44
Supplies.....			591 84		210 76	
Total.....			\$25,231 35			

The value of supplies on hand January 1, 1903, was \$2,796 44, the amount paid for supplies, \$591.84, makes \$3,388.28, from which supplies when needed have been taken and charged to the various bridges.

The supplies on hand January 1, 1904, were valued at \$2,881.19.

Repairs have been made upon the various bridges as follows:

POINT STREET BRIDGE.

This bridge has not been closed to public travel during the year.

No general repairs have been made, except the painting of the metal work above the floor, and some patching of the driveway planking.

WASHINGTON BRIDGE.

This bridge has not been closed to travel during the past year.

No general repairs have been made, except the renewal of the two-inch spruce and oak wearing plank. One broken wrought iron band on one of the cylinder piers has been replaced.

RED BRIDGE.

This bridge has not been closed to travel during the year.

No general repairs have been made. The two-inch asphalt on the middle of the driveway of the draw, between the two lines of car tracks, has been replaced by two-inch spruce for a wearing surface. The thin asphalt on the draw has not proved satisfactory as a wearing surface, besides making a great increase in the weight of the floor, and it is believed that much better results will be had with the spruce plank.

MERINO BRIDGE.

The construction of the new bridge over the Woonasquacket river to connect Egan and Chattlet streets was com-

pleted May 11, 1903, with the exception of some painting to be done on the metal work.

The embankment forming the southerly approach to the bridge was made from material carted across the bridge from the north side. This filling, together with the construction of the sewer from Manton avenue to the bridge, was not completed until some time in December, so that the bridge was not available for public travel until about the middle of December, 1903.

This bridge is forty feet wide, out to out, with one driveway of twenty-eight feet and two sidewalks of six feet each. The abutments and piers are of granite and concrete masonry. The superstructure is of steel and consists of one truss span of one hundred and twenty-six feet over the river and one plate girder span of thirty-nine feet over the railroad tracks. The driveway floor consists of a lower course of three-inch yellow pine plank and a wearing course of two-inch spruce plank. The sidewalks are covered with two-inch yellow pine plank. The superstructure has been designed to carry safely the heaviest city travel and the whole structure has been built in the most substantial manner.

ADELAIDE AVENUE BRIDGE.

In accordance with the agreement entered into between the city and the New York, New Haven & Hartford Railroad Company, the easterly abutment has been built, and the westerly abutment, which was built at the time the sewer was constructed, changed on the upper portion by the city, and the superstructure constructed by the railroad company of steel with a wooden floor. As soon as the approaches are graded the bridge can be opened for public travel.

POST OFFICE BRIDGE.

The construction of this bridge, which covers the area over the Providence river between the Burnside and Exchange bridges, is made necessary in order to give open street areas on all sides of the new Post Office. The work

on the substructure has been in progress since last April. The west abutment wall and two of the piers are nearly completed, leaving one more pier to be constructed and the east abutment wall to be changed to receive the bridging. The contract for the steel superstructure has not yet been awarded.

CRAWFORD STREET BRIDGE.

During the past year repairs have been made upon this bridge by piecing up decayed piles with yellow pine posts, by patching the planking, which in places is very badly decayed, and by strengthening some of the poorer floor beams.

SMITHFIELD AVENUE BRIDGE.

The abutment at the southwest corner having cracked and shown indications of weakness has been strengthened by grouting and by placing a footing of concrete around the foundation at the corner. Since this work was completed there has been no further movement of either the abutment or wing wall.

FRANCIS STREET AND PROMENADE STREET BRIDGES.

The abutment walls of these two bridges have been repaired by cleaning out the joints in the masonry between mean high and mean low water, where the pointing had fallen out, and repointing with Portland cement mortar.

BRANCH AVENUE BRIDGE AT WANSKUCK.

This bridge, which during the construction of the sewer had settled out of place, has been levelled up and raised to correspond with the established grade. Some repairs were made on the woodwork, which will make this bridge reasonably safe for a while longer, although the construction of a new bridge at this location cannot be very long delayed.

The two-inch wearing plank and the concrete and asphalt wearing surfaces on several of the smaller bridges have been renewed or repaired.

Painting has been done on a number of the bridges during the year as needed.

Sundry other repairs have been made from time to time on various bridges as needed.

A careful examination of all the bridges has been made during the year.

The more important work expected during the coming season is as follows:

POINT STREET BRIDGE.

The wearing plank will need renewing early in the spring, and when this is done it is expected that the lower planking and the floor beams will be found to be considerably decayed. Whether the wooden floor shall be thoroughly overhauled and put in condition for several years' use, or whether only such temporary repairs shall be made as will make the bridge safe, will depend on what decision is made in regard to the rebuilding of the two fixed spans, as recommended in last year's report, from which the following quotation is made: "Where the truss arches of the fixed spans meet the floor of the bridge, more or less corrosion has been going on for a number of years, notwithstanding that special efforts have been made by frequent cleaning and painting to stop it. It has seemed to progress more rapidly the last year or two. During the past season, when investigating the city water mains with reference to possible electrolytic injury, Mr. A. A. Knudson, E. E., made a careful examination of the corroded parts and gave it as his opinion 'that electrolytic action is clearly responsible for the greater part of damage found at the foot of this span.' Whether this is so or not, the fact remains, that, * * *, the metal at the foot of some of the trusses has been badly damaged by corrosion. The metal, which was originally three-eighths of an inch thick, has been eaten through in three places and in other places is very thin, so that it was found necessary to strengthen, as far as prac-

ticable, the damaged parts by rivetting on additional plates. This bridge was opened for travel thirty years ago."

"The fixed spans are of poor design and light construction. No trotting is allowed on the bridge, much to the delay of travel, and the margin of strength is not what it should be for a bridge subjected to such heavy travel. In consideration of all these conditions a proper regard for the safety and convenience of public travel over this bridge demands that the fixed spans, at least, should be replaced by new ones of greater strength, without unnecessary delay."

CRAWFORD STREET BRIDGE.

This bridge has shown rapid deterioration during the past year. Many of the piles, especially in the upper portions along Dyer and South Water streets, are badly decayed, quite a number having been found entirely rotted away. The floor beams are also in various stages of decay, and the planking on the portions not renewed at the time of rebuilding the walls is in very bad condition. In general, the condition of this bridge is such that immediate steps should be taken toward the replacing of the present wooden structure with stone piers and steel bridging. Delay in taking up this matter may result in either closing parts of this bridge to travel or making extensive repairs by overhauling the structure.

GASPEE STREET BRIDGE.

Nothing has been done about the reconstruction of this bridge on the new lines to correspond with the new layout of Gaspee street. While the present structure is safe, yet the completion of the State House and improvement of surroundings, would seem to emphasize the need of rebuilding this bridge to correspond with the new street location as soon as the finances of the city will permit.

BRANCH AVENUE BRIDGE OVER THE MOSHASSUCK RIVER.

Some repairs will probably be required on this bridge in order to make it safe, but the building of a new structure in place of the present one cannot be very long delayed.

The sidewalk planking and wearing surface of the driveway of several of the bridges will probably need renewing or repairing during the coming year.

Considerable painting on the various bridges will be needed.

In addition to the foregoing, sundry small bridges, together with the drawbridges are liable to need repairs that cannot be anticipated or estimated for.

Tables showing the passage of crafts through and travel over the drawbridges are appended.

The freedom from accidents at each of the drawbridges reflects credit on the employees for their efficiency and carefulness.

Respectfully submitted,

WALTER F. SLADE,

Commissioner of Public Works.

The following table shows a comparison of the total number of crafts which passed through the draw-bridges during the last twenty-six years:

NAME OF BRIDGE.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.
Point street bridge.....	30,640	35,369	33,964	31,323	33,878	29,465	22,060	22,626	23,505	24,301	24,789	26,000	30,255
Red bridge.....	1,743	2,227	2,283	2,181	2,281	2,849	2,461	5,914	3,736	5,621	3,119	3,600	3,076
Washington bridge, India Point....		22,961	2,974	2,782	2,675	3,183	3,210	1.....	.....	15,777	3,972	4,042	3,642

NAME OF BRIDGE.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.
Point street bridge.....	26,387	25,530	23,568	20,801	21,884	22,307	20,790	22,004	22,820	23,248	22,713	22,701	24,687
Red bridge.....	3,857	3,061	3,446	2,455	\$2,553	2,283	2,204	2,159	3,250	4,392	2,525	2,040	4,166
Washington bridge, India Point....	4,682	3,761	4,672	3,020	3,196	2,908	2,890	2,754	4,105	5,146	3,777	3,173	5,421

* For the last nine months of 1879. † Old bridge closed to travel June 23, 1885. ‡ New bridge, record began Feb. 12, 1887.

§ Old bridge closed to travel February 22, 1895. New bridge opened to travel Dec. 23, 1895.

The following table shows the greatest and average number of openings for any one day at the different draw-bridges:

NAME OF BRIDGE.	Greatest Number of Openings in Any One Day for 1903.	Daily Average Number of Openings for the Year 1903
Point street bridge.....	89	46.0
Red bridge.....	23	6.1
Washington bridge.....	22	8.3

The great variation in the number of crafts passing through Red and Washington bridges for the different years is due to the towing through these bridges of the materials dredged from the Pawtucket river.

The following tables show the number of each kind, and the total number of vessels that passed through the draw-bridges during the year 1903:

POINT STREET BRIDGE.

MONTHS.	Steamboats.	Towboats.	Sailing Vessels.	Sailboats.	Barges.	Miscellaneous.	Totals for the year.	Totals for previous year.	Per cent. of increase and decrease.	Times draw was opened.	Average time from closing to opening gates.
											Min.
January.....	413	894	18	6	73	13	1,417	1,595	-11	982	3.13
February.....	404	872	32	0	61	6	1,375	1,232	+12	950	3.16
March.....	592	964	39	7	98	50	1,730	1,448	+19	1,207	3.10
April.....	618	782	46	15	68	21	1,550	1,726	-10	1,098	3.16
May.....	746	1,138	51	23	82	30	2,070	1,707	+21	1,449	3.18
June.....	1,333	1,156	28	8	68	24	2,617	2,343	+12	1,840	3.25
July.....	2,355	1,146	42	15	98	30	3,686	3,225	+14	2,270	3.49
August.....	2,119	1,093	44	11	83	17	3,367	3,223	+4	2,165	3.53
September.....	1,210	1,187	31	19	64	42	2,553	1,963	+30	1,115	3.30
October.....	475	867	42	8	58	13	1,463	1,442	+1	1,077	3.18
November.....	480	777	28	7	68	17	1,577	1,314	+6	1,024	3.10
December.....	463	840	20	0	89	70	1,482	1,483	0	1,019	3.24
Totals.....	11,208	11,716	421	119	910	313	24,087	22,701	+9	16,796	3.23

RED BRIDGE.

MONTHS.	Steamboats.	Towboats.	Sailing Vessels.	Sailboats.	Barges.	Miscellaneous.	Totals for the year.	Totals for previous year.	Per cent. of increase and decrease.	Times draw was opened.	Average time from closing to opening gates.	
											Min.	
January	0	84	3	0	55	26	172	76	+126	77	4.83	
February	0	56	3	0	35	20	114	74	+54	50	4.69	
March	7	194	12	2	41	109	365	88	+315	189	4.80	
April	4	120	17	5	72	30	248	193	+27	123	4.48	
May	16	118	10	8	75	25	252	190	+33	142	4.27	
June	33	139	18	10	74	36	310	175	+77	180	4.43	
July	97	156	25	15	90	37	420	236	+78	251	4.53	
August	91	252	7	11	80	158	595	232	+157	318	4.84	
September	35	224	16	7	57	126	465	169	+175	255	4.32	
October	8	282	9	4	41	207	551	185	+198	283	4.17	
November	4	252	8	0	48	181	493	176	+180	245	4.07	
December	0	100	2	0	36	43	181	246	-27	96	4.17	
Totals	295	1,981	130	58	704	998	4,166	2,040	+104	2,209	4.47	

WASHINGTON BRIDGE.

MONTHS.	Steamboats.	Towboats.	Sailing Vessels.	Sailboats.	Barges.	Miscellaneous.	Totals for the year.	Totals for previous year.	Per cent. of increase and decrease.	Times draw was opened.	Average time from closing to opening gates.	
											Min.	
January	21	132	8	0	69	30	260	204	+27	135	4.75	
February	19	90	5	1	47	24	186	104	+79	99	4.66	
March	56	232	11	6	61	108	470	145	+217	263	4.74	
April	98	158	17	6	87	39	405	267	+52	205	4.78	
May	127	136	14	17	80	22	396	331	+20	219	4.59	
June	137	169	24	10	81	34	455	283	+61	274	4.34	
July	153	216	41	15	124	39	588	377	+56	358	4.38	
August	124	263	12	11	85	139	634	290	+118	377	4.37	
September	112	239	17	12	64	117	561	272	+106	324	4.36	
October	62	303	11	9	60	158	643	308	+106	342	4.43	
November	35	268	7	1	59	182	552	255	+116	282	4.48	
December	27	147	2	1	42	52	271	337	-20	152	4.56	
Totals	971	2,353	169	85	859	984	5,421	3,173	+71	3,030	4.54	

1904.]

CITY DOCUMENT.

[No. 10.

ANNUAL REPORT

OF THE

CITY ENGINEER

OF THE

CITY OF PROVIDENCE,

FOR THE YEAR 1903.



The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
63 Washington Street,
1904.

REPORT.

CITY ENGINEER'S OFFICE, CITY HALL,
PROVIDENCE, R. I., January 1, 1904.

TO THE HONORABLE THE CITY COUNCIL OF THE CITY OF
PROVIDENCE:

In compliance with the ordinances relating to the City Engineer's Department, the following report of the expenses and operations of the department for the year 1903 is respectfully submitted:

The amounts paid from the appropriations for this department from January 1, 1903, to January 1, 1904, are as follows:

Expended from the appropriation for 1902-1903,	\$36,138 83
“ “ “ “ 1903-1904,	11,203 62
Total amount expended.....	<u>\$47,342 45</u>

The condition of the appropriation for 1903-1904 is as follows:

Amount appropriated for the fiscal year ending	
September 30, 1904.....	\$50,000 00
Amount expended to January 1, 1904.....	11,203 62
Unexpended balance to January 1, 1904..	<u>\$38,796 38</u>

At the close of the fiscal year, September 30, 1903, the balance of appropriation unexpended, \$2,422.69, was transferred from the account of this department.

CLASSIFICATION OF EXPENDITURES.

For salaries	\$45,050 51
“ car tickets	813 55
“ instruments and repairs.....	508 67
“ supplies, drawing materials, etc.....	951 32
“ incidentals	7 68
“ telephone lines	10 72
Total.....	<u>\$47,342 45</u>

The item for salaries of assistants may be divided as follows:

For general superintendence, estimating the cost and giving lines and grades for the extension of water pipes, engine and water calculations, service pipe work, water filtration, for surveys and other matters relating to water works... \$5,569 35

For giving lines and grades for sewer construction, improved sewerage, making preliminary surveys and plans, finished plans and sections, private drains, surveys, estimates, plans, etc., and all work relating to sewers..... 7,935 21

For marking lines and grades for and estimating cost of street construction, defining established grades, designing and defining proposed grades, making profiles, etc., for estimating the cost of laying water pipes, office records, etc. 8,149 46

For defining street lines, making surveys and maps for street relays and extensions, office records, etc.	\$ 4,130 91
For surveys, maps, and examination of titles to city property	2,779 12
For surveys and plans relating to parks and public grounds	668 53
For surveys and plans relating to North Burial Ground	354 61
For surveys, plans and estimates for bridges and superintendence of repairs of same.....	4,983 34
For all work relating to harbor and river improvements	252 85
For all work relating to public buildings.....	81 17
For office work, including clerk hire, etc.....	3,123 62
For all other miscellaneous work, including meteorological observations, etc.	2,522 34

METEOROLOGICAL.

The following meteorological instruments have been in operation under the direction of this department the past year:

1 self-registering barometer.	1 standard thermometer.
1 " " thermometer.	1 " hygrometer.
1 " " anemometer.	1 " rain gauge.
1 " " anemoscope.	1 maximum thermometer.
1 " " rain gauge.	1 minimum "
1 standard barometer.	

The following tables show the record of meteorological observations that have been kept and compiled during the year, viz.:

One table showing the depth of rain and melted snow that fell during each storm, and the duration of each storm in hours during the year. A summary is also given following this table, showing the number of times, from 1877 (when the keeping of these records by the City Engineer began) to 1903, inclusive, that the depth of rainfall of each storm has been the nearest to a series of amounts ranging from one one-hundredth of an inch to eight inches.

One table showing the monthly and annual depth of rain and melted snow expressed in inches from 1832 to 1903, inclusive; also the amounts that have fallen from January 1st to the end of each month, inclusive, during each year.

Twelve tables showing the daily observations during each month of 1903.

One table showing the monthly summary for the year 1903, and the yearly summary of each year since 1899.

Three tables showing the monthly temperatures since 1880, viz.: the mean temperature, the maximum temperature, and the minimum temperature.

The record of meteorological observations is computed and hektographed monthly, and about twenty-three copies are sent to people who are particularly desirous of obtaining the same for scientific investigation or practical use. A great deal of detailed and general information in regard to meteorology is also furnished to people who make inquiries, to representatives of the press, and for use in court cases. The record of amount of snow on the ground on Monday of each week during the winter is furnished to the United States Weather Bureau at Boston, and also a monthly record of maximum and minimum temperatures and rainfall is furnished each month to the same office.

Several tests and adjustments of aneroid barometers have been made during the year.

The use of the self-registering anemometer and self-registering rain gauge, loaned last year by the Government Observer, Mr. B. S. Pague, was continued until June 25, 1903, when they were returned to the exhibit at Crescent Park.

The records relating to meteorological observations are kept by the Water Department.

DEPTH OF RAINFALL AND MELTED SNOW, EXPRESSED IN INCHES, AND DURATION OF EACH STORM AT
HOPE RESERVOIR, FOR THE YEAR 1903.

Day of Month.	JAN.		FEB.		MARCH.		APRIL.		MAY.		JUNE.		JULY.		AUGUST.		SEPT.		OCT.		NOV.		DEC.		Day of Month.
	Amt.	Hr.	Amt.	Hr.	Amt.	Hr.	Amt.	Hr.	Amt.	Hr.	Amt.	Hr.	Amt.	Hr.	Amt.	Hr.	Amt.	Hr.	Amt.	Hr.	Amt.	Hr.	Amt.	Hr.	
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Totals..	4.98	78	5.64	110	8.17	178	4.01	107	0.98	12	6.64	216	4.76	76	3.92	148	1.00	45	2.89	137	1.77	81	3.56	86	Totals.

Duration 1,273 hours.

Total amount 47.91 inches.

* Two separate storms.

Table showing the number of
amounts ranging from or

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4....	6	7	11
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6....	5	14	8
7....	4	16	11
8....	15	16	11
9....	14	17	9
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1....	10	7	8
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Year 1903.

WIND.						WEATHER.						RAIN AND SNOW.	
Direction. No. of days it was						Atmosphere. No. of days it was						Amount of rain or melted snow in inches.	Depth of snow in inches.
S.	S. W.	W.	N. W.	Variable.	Mean Velocity.	Clear.	Fair.	Variable.	Rain or Snow.	All others.	Mean amount of cloud.		
3	4	6	13	.....	8	6	13	1	10	1	4.8	4.98†	7.50
3	4	4	12	.....	10	8	8	0	13	0	4.3	5.64†	16.00
8	2	2	8	.....	7	7	7	1	16	0	5.4	8.17†	*
8	0	1	9	.....	9	6	9	3	10	2	4.3	4.01†	*
13	1	1	4	.....	6	15	8	0	8	0	3.3	.58	.....
12	0	2	1	.....	6	2	4	1	19	4	7.2	6.64	.....
5	4	4	13	.....	6	3	14	0	14	0	4.4	4.75	.....
5	1	1	10	.....	5	0	17	0	13	1	5.8	3.92	.....
9	5	2	8	.....	6	6	15	2	7	0	3.4	1.00	.....
6	3	3	6	.....	8	9	7	0	15	0	4.8	2.89	*
1	4	2	17	.....	7	13	8	0	9	0	3.8	1.77†	3.00
2	5	10	9	.....	9	12	4	2	13	0	4.0	3.56†	8.00
.....	.....	.....	.....	.....	7	.....	.....	.....	.....	.....	4.6	.....	.....
75	31	38	105	.....	.....	87	114	10	146	8	.....	47.91	33.50
.....
.....	.....	.....	.....	.....	8	.....	.....	.....	.....	.....	5.0	.....	.....
89	27	30	94	.....	.....	45	132	12	170	6	.....	48.32	65.50
.....
.....	.....	.....	.....	.....	8	.....	.....	.....	.....	.....	5.0	.....	.....
51	27	26	90	75	.....	51	145	13	182	4	.....	52.06	21.25
.....
.....	.....	.....	.....	.....	8	.....	.....	.....	.....	.....	4.7	.....	.....
35	43	45	81	77	.....	55	140	6	182	13	.....	47.78	19.50
.....

Wind has not been considered since 1901.

論學問之進步與社會之關係

（一）

（二）

學問之進步，與社會之關係，固非淺鮮。蓋社會者，人類生活之共同體也。人類生活，不能離社會而獨立。故社會之進步，與學問之進步，實為一體兩面，不可分割。學問之進步，能促進社會之進步；社會之進步，亦能促進學問之進步。此二者，相輔相成，相得益彰。故欲求社會之進步，必先求學問之進步；欲求學問之進步，必先求社會之進步。此為學問與社會之基本關係，不可不察也。

學問之進步，始於好奇之心。人類對於未知之事物，往往有好奇之心，而好奇之心，乃學問之動力。故學問之進步，必先有好奇之心。好奇之心，能使人探索未知，發見真理。此為學問之第一步，不可不察也。

學問之進步，次於懷疑之精神。人類對於已知之事物，往往有懷疑之精神，而懷疑之精神，乃學問之動力。故學問之進步，必先有懷疑之精神。懷疑之精神，能使人質疑權威，發見真理。此為學問之第二步，不可不察也。

學問之進步，終於實踐之精神。人類對於真理，往往有實踐之精神，而實踐之精神，乃學問之動力。故學問之進步，必先有實踐之精神。實踐之精神，能使人將真理化為行動，改善社會。此為學問之第三步，不可不察也。

社會之進步，始於合作之精神。人類生活，不能離社會而獨立。故社會之進步，必先有合作之精神。合作之精神，能使人團結一致，共謀福利。此為社會之第一步，不可不察也。

社會之進步，次於競爭之精神。人類生活，不能離社會而獨立。故社會之進步，必先有競爭之精神。競爭之精神，能使人奮發圖強，改善生活。此為社會之第二步，不可不察也。

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WATER WORKS.

Water pipes have been laid in the following streets during the year 1903, which have been measured up, located, and plotted.

STREETS.	BETWEEN WHAT POINTS.	SIZES AND LENGTHS OF PIPES LAID.			
		6 inch.	8 inch.	12 inch.	16 inch.
Agnes.....	Dike and Oak streets.....	249.15			
Alumni avenue.....	At Weymouth street.....	51.90			
Ashton.....	Chatham street northwest.....	146.20			
Augusta.....	River avenue and Cumberland street.....	633.14			
Barker.....	At Wells avenue south.....	199.21			
Bath.....	Calverley and Orms streets.....		1,191.34		
Bayview avenue, Cranston.....	Termination to Narragansett boulevard.....	72.60			
Bel Air avenue.....	Termination to Phillips street.....	290.56			
Bernard.....	Babcock and Calla streets.....	200.78			
Bowling.....	Hartford avenue north.....	230.25			
Branch avenue.....	Vandewater and Veazie streets.....		1,651.17		
Bryfield.....	Broad street east.....		210.06		
Calverley.....	Termination to Promenade street.....	177.63	354.94		
Caswell court.....	Willard avenue north.....	122.64			
Chad Brown.....	Douglas avenue and Eaton street.....	813.62			
Clarence.....	Webster avenue west.....	449.40			
Cole avenue.....	Irving and Lloyd avenues.....	410.88			
Cutler.....	Marston street south.....	167.20			
Dante.....	Admiral street south.....	203.45			
David.....	Termination north.....	72.86			
Dayton court.....	Rugby street to termination.....	184.63			
Dora.....	Webster avenue west.....	238.80			
Dora.....	Cumeford street east.....	158.90			
Dover, Cranston.....	Laurel Hill avenue east.....	136.87			
Dike.....	Termination to Agnes street.....	108.21			
Dunford.....	Termination north.....	72.51			
Dyer avenue, Cranston.....	Termination to Meadow avenue.....		60.12		
Fames.....	Morris avenue east.....	306.09			

WATER WORKS—Continued.

STREETS.	BETWEEN WHAT POINTS.	SIZES AND LENGTHS OF PIPES LAID.			
		6 inch.	8 inch.	12 inch.	16 inch.
East River.....	At Medway street.....	8.06			
Edgewood avenue, Cranston.....	Termination to Westwood avenue.....	224.48			
Edith.....	Leland street east.....	51.16			
Elgin.....	Hope street northwest.....	92.92			
Elton.....	Wayland and Humboldt avenues.....	322.22			
Everett avenue.....	Elmgrove avenue to near Wayland avenue.....	402.40			
Faith.....	Tyler street south.....	49.25			
Federick.....	Termination north.....	24.20			
Germania avenue, Cranston.....	Bayview avenue and Narragansett street.....	200.08			
Gladstone street, Cranston.....	Laurel Hill avenue east.....	244.63			
Grover.....	Laurel Hill avenue to near termination.....	563.36			
Henry street, Cranston.....	Warwick avenue to termination.....	596.80			
Herschel.....	Termination to near Klondike street.....	144.20	664.98		
Houghton (private).....	Veazie street west.....	12.75			
Humboldt avenue.....	Termination to Elton street.....	729.92			
Jewett.....	Valley and Bath streets.....	119.60			
Lamb.....	Termination west.....	132.98			
Lawrence street, Cranston.....	Termination east.....	416.83			
Ledge.....	Smithfield avenue southwest.....	206.10			
Lenox avenue.....	Termination to Hamilton street.....	268.76			
Meadow avenue, Cranston.....	Dyer avenue east.....			712.47	
Merino avenue.....	Grimwood and Sacramento streets.....				
Moorefield.....	Termination southeast.....				
Moses Brown.....	Angell and South Angell streets.....				
Moy.....	Termination north.....	206.30			
Narragansett street, Cranston.....	Narragansett boulevard and Germania avenue.....	372.22			
Narragansett boulevard, Cranston.....	Termination to Northrup street.....	58.70			
Narragansett boulevard, Cranston.....	Shaw and Marion avenues.....	839.80	67.95		
Noble street, Cranston.....	Cato street north.....		284.86		
Northrup avenue.....	Edward and Silver Spring streets.....	375.35	356.84		
Northrup street, Cranston.....	Termination to Narragansett boulevard.....	248.85			
O'Connell.....	Eddy street east.....	259.33			

WATER WORKS—Continued.

STREETS.	BETWEEN WHAT POINTS.	SIZES AND LENGTHS OF PIPES LAID.			
		6 inch.	8 inch.	12 inch.	16 inch.
Okla.....	At Bath street.....	58.13			
Opfer.....	Branch avenue to near Monticello street.....	192.41			
Ortolo avenue.....	Termination to Rhode Island avenue.....	443.43			
Pavilion avenue.....	Termination to Blundell street.....	313.79	64.36		
Pawtucket avenue, Cranston.....	Termination street south.....		277.25		
Pontiac avenue, Cranston.....	Park avenue southwest.....	33.19	12.08		
Promenade.....	Termination west.....				
Reservoir avenue, Cranston.....	At Eldridge street.....				
Rhode Island avenue.....	Ortolo avenue and Angell street.....	230.01			
Richfield avenue.....	Reservoir avenue to City line.....	68.00			
Richfield avenue, Cranston.....	City line southeast.....	190.44		1,987.23	2.56
River avenue.....	Boulevard avenue to near Admiral street.....				
Rodman.....	Sackett street south and west.....	422.02			
Roger Williams Park.....	Near Broad street.....	3.04			
Roland court, Cranston.....	Roland avenue northeast.....	146.25			
Rugby.....	Termination north.....	183.70			
Savies.....	Minor street to near Harriet street.....	160.52			
Sutton drive, Cranston.....	Narragansett boulevard and Broad street.....	1,128.79	376.56		
Silver Lake avenue.....	Termination to Northrup avenue.....				
Slanshope.....	Termination to near Murray street.....	133.40			
Slansbury.....	Newbery street north.....	147.16			
Smyth avenue, Cranston.....	Termination north.....	146.40			
Tunnet avenue.....	Park avenue north.....	216.66	90.29		
Tell.....	Killingly street west.....	140.55			
University avenue.....	Termination to Courtland street.....	1,456.18			
Vandewater.....	Elmgrove and Slater avenues.....	498.15			
Vezie.....	Branch avenue and Houghton street.....		550.40		
Vermont street, Johnston.....	At Branch avenue.....		3.17		
Villa avenue, Cranston.....	Termination northeast.....	36.35			
Warwick avenue, Cranston.....	Gail and Pearl avenues.....	276.90			
	At Park avenue.....	22.56			

WATER WORKS—Continued.

STREETS.	BETWEEN WHAT POINTS.	SIZES AND LENGTHS OF PIPES LAID.			
		6 inch.	8 inch.	12 inch.	16 inch.
Waterloo	Termination to Dexter street.....	351.52			
Wayland avenue.....	Lloyd and Irving avenues.....	411.75			
West Park	At Bath street.....	56.06			
Westwood avenue, Cranston.....	Edgewood avenue to west of Ivy avenue.....	856.05			
Weymouth.....	Lloyd avenue and Olney street.....	1,056.55			
	Totals in feet.....	22,096.57	6,216.39	1,999.70	2.56

The total amount of pipes laid during the year, included in the above table, is 5,7415 miles. The total number of miles that the water pipe system has been increased during the year is 5,2426 miles.

Pipes taken out:

Branch avenue, from Vandewater street to Veazie street, 1651.17 feet of 6-inch.

Grand street, at Huntington avenue, 33.65 feet of 6-inch.

Merino avenue, at Woonasquatucket river, 437.21 feet of 12-inch.

Merino avenue, at Woonasquatucket river, 274.56 feet of 16-inch.

Veazie street, at Branch avenue, 3.54 feet of 6-inch.

The above does not include pipes taken out temporarily, or pipes taken out and relaid without changing the length.

Pipes abandoned:

Grand street, at Huntington avenue, 41 feet of 6-inch.

193.17 feet of 6-inch pipe in Manchester street extended, laid as main, has been sold.

Twenty-nine hydrants have been set during the year 1903. The following table shows their locations and the sizes of pipes to which they are connected:

LOCATIONS.	SIZES OF PIPES.		
	6 inch.	8-inch.	12-inch.
Agnes street, east side, 101 feet north of Oak street	1	.....	.....
Augusta street, northeast corner of Wainwright street.....	1	.....	.....
Bath street, east side, 7 feet south of West Park street.....	.....	1	.....
Bel Air avenue, east side, 185 feet south of Cypress street.....	1	.....	.....
Branch avenue, south side, 16 feet east of Veazie street.....	.....	1	.....
Brown University, range of east line of Engineering Building, and 177 feet west of Thayer street*.....	1	.....	.....
Chad Brown street, north side, 360 feet west of Eaton street..	1	.....	.....
Charles street, northeast corner of Ledge street.....	.....	1	.....
Clarence street, north side, 245 feet west of Webster avenue	1	.....	.....
Edith street, north side, 30 feet east of range of east line of Leland street.....	1	.....	.....
Elton street, north side, 62 feet west of Humboldt avenue....	1	.....	.....
Jewett street, north side, 329 feet west of Bath street.....	1	.....	.....
Opper street, east side, 3 feet north of Branch avenue.....	1	.....	.....
Oriole avenue, north side, 294 feet west of Rhode Island avenue.....	1	.....	.....
Pawtuxet avenue, Cranston, east side, 25 feet south of Ar- mington street (Post).....	.....	1	.....
Pontiac avenue, Cranston, southeast side, 24 feet southwest of Park avenue going west (Post).....	1	.....	.....
Promenade street, north side, 3 feet east of Calverley street..	.....	1	.....
River avenue, southeast corner of Augusta street.....	.....	.....	1
Rosedale street, north side, 341 feet east of Ellery street.....	1	.....	.....
Sefton drive, Cranston, northeast corner of Berwick lane (Post).....	1	.....	.....
Tucker avenue, Cranston, south side, 612 feet west of Broad street (Post).....	1	.....	.....
University avenue, north side, 209 feet west of Slater avenue	1	.....	.....
University avenue, north side, 184 feet west of Wayland avenue.....	1	.....	.....
Vandewater street, east side, 87 feet south of Branch avenue	1	.....	.....
Veazie street, east side, 3 feet north of range of south line of Houghton street.....	.....	1	.....
Waterloo street, north side, 269 feet west of Dexter street....	1	.....	.....
West Park street, north side, 6 feet west of Aster street.....	1	.....	.....
Weymouth street, east side, 21 feet north of Lloyd avenue....	1	.....	.....
Weymouth street, east side, 214 feet south of Alumni avenue	1	.....	.....
Totals.....	22	6	1

* This hydrant is the property of Brown University.

The locations of the following hydrants have been changed:

Branch avenue, south side, 73 feet east of Ulysses street, formerly south side, 249 feet east of Abram street.

Branch avenue, south side, 74 feet west of Abram street, formerly south side, 62 feet west of Abram street.

Brown University, range of north side of, and 67 feet east of Manning Hall, formerly 103 feet south of Waterman street, and 52 feet west of Brown street.

Exchange street extension, northeast side, 111 feet northwest of Washington street extension, formerly northeast side, 123 feet northwest of Washington street extension.

The total number of flush hydrants in use December 31, 1903, not including the high pressure fire service, is eighteen hundred and eighty-six, including twenty-one in the town of Johnston.

The total number of high pressure fire service flush hydrants in use December 31, 1903, is ninety-two.

The total number of flush hydrants in use December 31, 1903, including the high pressure fire service, is nineteen hundred and seventy-eight, twenty-one of which are in the town of Johnston. There are ninety-one post hydrants which are set in the town of Cranston, and twelve post hydrants which are set in the town of North Providence.

One sprinkler hydrant for supplying car sprinklers has been set during the year. There are now twenty-one of these hydrants in use.

Lines and grades have been furnished for changing the following hydrants:

- 2 on Manton avenue.
- 1 on Silver Spring street.
- 3 on Smithfield avenue.

Lines and grades have been furnished for changing water pipes in the following streets:

Byron street, Cranston, 277 feet of 6-inch pipes lowered.
 Cleveland avenue, Cranston, 200 feet of 6-inch pipes lowered.
 Manton avenue 100 feet of 12-inch pipes lowered.
 Merino avenue 247 feet of 12-inch pipes lowered.
 Merino avenue, 33 feet of 12-inch pipes raised.
 Ninth street, 350 feet of 6-inch pipes lowered.
 Nisbet street, 49 feet of 6-inch pipes lowered.
 Northup avenue, 494 feet of 8-inch pipe raised.
 Rosedale street, 500 feet of 6-inch pipes lowered.
 Silver Spring street, 200 feet of 8-inch pipes raised.
 Silver Spring street, 225 feet of 8-inch pipes lowered.
 Smithfield avenue, 257 feet of 8-inch pipes lowered.
 Smithfield avenue, 40 feet of 8-inch pipes raised.
 Tell street, 90 feet of 6-inch pipes lowered.
 Transit street, Cranston, 630 feet of 6-inch pipes lowered.

Following is a statement of the length of each size of water pipes in the ground December 31, 1903, considered as mains, not including the high pressure fire service:

SIZES OF PIPES.	Lengths in Feet.	Lengths in Miles.
36-inch.....	10,084.00	1.9098
30 ".....	61,347.96	11.6189
24 ".....	43,800.46	8.2955
20 ".....	9,626.59	1.8232
16 ".....	33,636.73	6.3706
12 ".....	104,969.13	19.8905
10 ".....	14,636.82	2.7721
8 ".....	290,649.99	55.0473
6 ".....	1,233,832.84	233.6805
Totals.....	1,802,584.52	341.3986

Included in the above table are the following approximate lengths of pipes which are laid in adjoining towns:

CRANSTON.		JOHNSTON.		NORTH PROVIDENCE.		PAWTUCKET.		WARWICK.	
Sizes of Pipes.	Lengths in Miles.	Sizes of Pipes.	Lengths in Miles.	Sizes of Pipes.	Lengths in Miles.	Sizes of Pipes.	Lengths in Miles.	Sizes of Pipes.	Lengths in Miles.
36-inch ..	1.9098	8-inch ..	2.5618	30-inch ..	0.0037	12-inch ..	0.0003	8-inch.	0.1660
30 " ..	4.5134	6 " ..	0.8870	24 " ..	0.5386			6 " ..	1.8968
24 " ..	0.1307			12 " ..	0.0156				
12 " ..	2.7651			8 " ..	1.2837				
8 " ..	7.5937			6 " ..	0.5079				
6 " ..	23.6540								
Totals ..	40.5667	.....	3.4688	.....	2.3495	.....	0.0003	.....	2.0048

Total length of pipes laid in adjoining towns, 48.4501 miles, of which about 41.4 miles are distribution pipes and the balance force and leading mains.

Following is a statement of the length of each size of the high pressure fire service water pipes in the ground December 31, 1903:

SIZES OF PIPES.	Lengths in Feet.	Lengths in Miles.
24-inch	4,188.58	0.7933
16 "	23,004.37	4.3669
12 "	2,215.76	0.4196
Totals	29,408.71	5.5698

The approximate cost of laying ordinary water pipes, with appurtenances, except hydrants, and including iron at \$35 per long ton, is:

For 4-inch.....	\$0.536	per foot.
" 3 ".....	0.815	"
" 8 ".....	1.098	"
" 10 ".....	1.408	"
" 12 ".....	1.809	"
" 16 ".....	2.730	"
" 20 ".....	3.817	"
" 24 ".....	5.052	"
" 30 ".....	7.195	"
" 36 ".....	9.683	"

The population of the city is estimated at 188,500, and the population supplied in the suburbs is estimated at 14,300. Total population supplied, 202,800.

The number of meters in use in the city is 18,242, and the number of meters in use in the suburbs is 1,596. Total number of meters in use, 19,838.

The number of service pipes in use in the city is 21,390, and the number of service pipes in use in the suburbs is 1,942. Total number of service pipes in use, 23,332.

The average daily use of water per service for the year 1903 has been 562 gallons.

The average daily use of water per capita for the year 1903 has been 65 gallons.

The water receipts for 1903 were \$621,016.74.

The net cost of maintenance for 1903 was \$130,199.63.

The net cost of the water works construction from November 8, 1869, to January 1, 1904, is \$6,569,925.22, upon which there has been a revenue for water sold of \$11,238,357.15.

Table showing the length in miles of water pipes laid each year since the construction of the water works was commenced, not including the high pressure fire service:

YEARS.	DIAMETERS IN INCHES.									Total for each year.	Total at the end of each year.
	6	8	10	12	16	20	24	30	36		
1870....								1.8799	.3176	2.1975	2.1975
1871....	15.3309	3.5902	.7610	.7731	.6795	1.1375	2.9189	3.8938	.6305	29.7154	31.9129
1872....	29.9396	3.9473	.5038	1.2708	1.0564	.0093	.3169	1.2472		38.2913	70.2042
1873....	14.0023	3.5199	.3373	2.5723	1.2256	.0956	.6343	1.1464		23.5399	93.7381
1874....	8.5837	2.2131	.0689	.5422	1.1165	.0083	.4973	2.9741	.9451	16.9492	110.6873
1875....	7.0084	.8127	.2377	.9060	.3161		.1670	.0473	.0167	9.5069	120.1962
1876....	7.8421	4.1472	.0813	1.3201	.5322					13.9227	134.1189
1877....	7.2277	1.6340		.7305	.2100					9.8022	143.9212
1878....	3.5680	.9483		.4521	.2963	.0456				5.3305	149.0262
1879....	2.3008	.0501		.0119						2.3628	151.3890
1880....	2.8427	.2266	.1080							3.1773	154.5663
1881....	3.8886	.8171	.0262					.1063		4.8381	159.4044
1882....	5.7777	.8547	.6709	.0119						7.3151	166.7196
1883....	4.7739	.9652		1.6513	.5471	.0017				7.9391	176.6755
1884....	6.2073	.4385		.2084						6.8542	183.8396
1885....	4.1239	1.0314		.3151						5.4705	189.3045
1886....	3.7713	1.0593		.1080						4.8387	194.2298
1887....	5.9473	.5572		.0522			2.6030			9.1597	203.3894
1888....	3.7247	1.4477		.6160	.0326		1.0861	.0037		6.9109	210.3669
1889....	5.4581	1.2673		1.1197			.0077			7.8529	218.0101
1890....	6.4927	1.5713		.4384		.5250				9.0274	226.4792
1891....	10.7147	5.2277	.1582	1.1633				.0485		17.3125	243.5319
1892....	11.6072	2.3326		.3559	.0467					14.3425	257.7153
1893....	12.6447	3.2813		.1935	.2042		.0254			16.3491	273.2654
1894....	8.1602	2.8566	.0002	.5873						11.6042	284.7603
1895....	9.7946	1.1626		.8547	.0532					11.8652	296.2754
1896....	5.3860	1.3160	.0986	.2480	.0541					7.1026	303.1921
1897....	5.9775	.5054	.0229	.6905	.0520					7.2483	310.3458
1898....	2.9212	1.2293	.0013	.4737			.0577	.2718		4.9649	314.8528
1899....	2.7102	.9348		.0757						3.7208	318.4279
1900....	5.3997	.8747		.5469			.0317			6.8531	324.5557
1901....	5.2152	1.0882		.3865						6.6900	331.0347
1902....	2.9670	1.3607		1.0006						5.3484	336.1500
1903....	4.1850	1.1773		.3787	.0006					5.7415	341.3966

The figures given in the last column of the previous table are the total lengths of useful water pipes, considered as mains, in the ground at the end of each year. The addition of the figures in the other columns of the table will not agree with the figures in the last column, as in a number of cases smaller sizes of pipes were temporarily laid in the first place, and larger sizes substituted later on, and at times pipes have been removed from the ground or abandoned.

The monthly and annual and the average daily and monthly consumption of water in gallons, including waste and leakage, during the year, is shown by the following table:

MONTHS.	Consumption per month.	Average monthly consumption.	Average daily consumption per month.	Average daily consumption for the year.
January	398,091,151		12,841,650	
February	353,314,762		12,618,384	
March	369,677,008		11,925,065	
April	370,021,077		12,334,036	
May	431,517,908		13,919,933	
June.....	390,451,085		13,015,036	
July	419,828,786		13,542,864	
August.....	400,294,087		12,912,712	
September.....	412,711,953		13,757,065	
October.....	405,862,993		13,092,355	
November.....	416,839,677		13,894,656	
December.....	418,223,718		13,491,088	
Total	4,786,834,205	398,902,850		13,114,614

The maximum consumption of water for any one day during the year 1903 was 16,831,300 gallons.

Average dai

YEARS.	January.
1877..	2,269,832
1878..	2,156,809
1879..	2,825,437
1880..	2,938,209
1881..	3,538,158
1882..	3,295,114
1883..	3,942,644
1884..	4,237,205
1885..	4,484,038
1886..	4,824,687
1887..	5,065,692
1888..	5,435,297
1889..	5,721,836
1890..	6,335,263
1891..	6,351,130
1892..	7,649,086
1893..	9,305,613
1894..	9,107,465
1895..	9,025,870
1896..	10,186,438
1897..	8,830,823
1898..	8,557,450
1899..	9,452,263
1900..	9,812,288
1901..	10,086,844
1902..	11,647,438
1903..	12,841,650

The amount of water consumed shown in the above table includes the supplying of about forty-one and four-tenths miles of distribution pipes, located in adjoining towns, as well as supplying the greater part of the State Institutions at Cranston. The new filtration plant at Pettaconset has used, and will require, a considerable quantity of water. Dexter Asylum has continued to use a considerable quantity of water, as usual, which, together with the use of water in the cold months through small blow-offs at bridge crossings and elsewhere, to prevent freezing, helps to keep up the consumption.

The following table shows the average daily consumption of water in gallons for each month and each year during the last twenty-seven years:

The receipts for water each year since the commencement have been as follows:

YEARS.	AMOUNTS.	YEARS.	AMOUNTS.
1872.....	\$41,003 51	1888.....	\$346,731 58
1873.....	97,386 09	1889.....	377,497 97
1874.....	132,062 39	1890.....	401,140 86
1875.....	165,144 71	1891.....	404,553 84
1876.....	183,868 73	1892.....	409,421 21
1877.....	200,039 39	1893.....	427,546 51
1878.....	218,883 33	1894.....	432,383 97
1879.....	229,551 78	1895.....	471,089 97
1880.....	247,705 06	1896.....	485,187 53
1881.....	260,530 87	1897.....	490,652 47
1882.....	269,318 77	1898.....	502,603 10
1883.....	283,632 89	1899.....	522,124 46
1884.....	302,368 36	1900.....	554,949 02
1885.....	313,561 21	1901.....	578,889 07
1886.....	323,064 67	1902.....	605,307 35
1887.....	339,513 60	1903.....	621,016 74

Lines have been marked in streets for laying water pipes equivalent to a distance of one and twenty-two one-hundredths miles, and grades marked equivalent to a distance of four and eighty one-hundredths miles. The required office data relating to the grades in the city were furnished by the highway department of the office when requested, and such as related to the laying out of streets were furnished by the street line department.

Estimates of the cost of laying about sixty-three thousand nine hundred and six feet of water pipes have been made.

One hundred and seventy-two construction plans for laying water pipes and other miscellaneous plans have been



Sand washing and concrete mixing machine, Telferage system, &c., Filter beds.



Constructing concrete wall and floor and laying main collector in Filter beds.



Crossing river with effluent pipe line from Filters.

made. Estimates for payments for water pipes purchased under contract have been made, and the pipes that have been laid have been located, recorded, and plotted, including elevator and fire supplies. Plans which are furnished by the applicants when applying for fire supplies have been examined before connecting with the city mains. Plans of special castings have been made and the castings inspected for the water and sewer departments. The daily, monthly, quarterly, and yearly consumption of water has been calculated, as well as water furnished in large quantities by special agreement. The cost of pumping and the duty of the pumping engines have been calculated, and other work of a miscellaneous nature has been done.

Ten sets of blue prints of water pipe distribution have been furnished to the Superintendent of Distribution, and one set furnished for use in the office of the Commissioner of Public Works.

At Fruit Hill, the grounds and reservoir are in good condition. In May, and again in October, the water was partially drawn down to allow several small holes to be repaired, with the result of diminishing the leakage considerably. The reservoir is now in better condition than it ever has been. Several hundred feet of the lower end of High Service avenue was re-macadamized with stone gotten out on the reservoir grounds in the grading and clearing of same. The granite steps in the reservoir bank have been pointed, the gatehouse brickwork has been repointed and oiled, and the woodwork and the steel bridge painted.

At Hope reservoir the Holly engine has done all the pumping the past year. The recommendation of the past two years is repeated, that a new engine is needed to replace the present Nagle engine, as this engine is not in condition to run with safety, and the expense of required re-

pairs had better be used toward a new one. The boilers have been equipped with the McClave grates and steam blowers, so as to enable No. 2 or 3 buckwheat coal to be used; this has been done since June 22d. The elevation of the water in the reservoir emphasizes the statement made last year that a new main from Sockanosset reservoir is needed, as the present mains cannot supply water enough to maintain the normal pressure required to keep the reservoir full.

At Pettaconset, the Worthington engine has been run on every day of the year and with very little repairs. The Corliss engine has been run on one hundred days. A new engine is needed of larger capacity, as it takes the two engines together to provide now for our largest daily needs. In connection with a new engine, a new force main will be needed, into which the new engine can pump independently of the standpipe. The latter is not in the best of condition, and when the suggested new work is completed the present Worthington engine should be connected directly to the force mains, and the standpipe abandoned. The use of oil at this station ceased early in May. Its use had resulted in economy to the city, owing to the exorbitant price of coal.

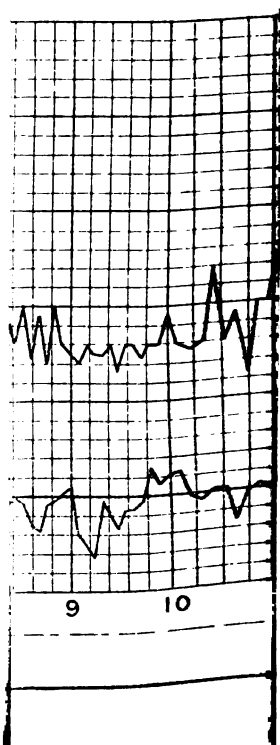
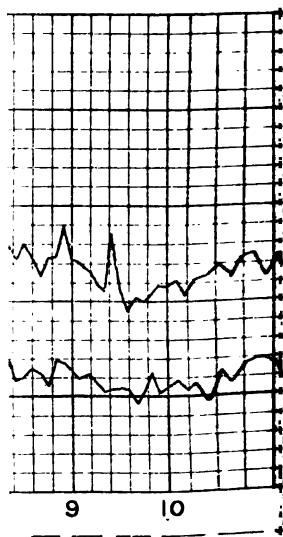
The work on the Filtration Plant has progressed somewhat slowly, owing to many causes. Four of the six beds have been finished, and the main collector laid in each. The foundations of the pumping station are all in and are ready for the superstructure. Nearly all of the conduits are in place, including the main clear water conduit under the river. A large amount of time and effort has been spent in the attempt to produce the exact quality of sand required, and when that is done the work will proceed much faster.

The investigations in relation to electrolysis have been continued; several breaks in services and small mains have occurred, one of which, in a four-inch cast-iron service pipe.



Four inch cast iron water pipe, showing effect of electrolysis.

the difference
of the City



is shown in the accompanying illustration. The trouble with several meters located near tidewater and affected thereby has continued, bolts have had to be renewed and leaks in the connecting pipes repaired. The district they are in has changed from positive to negative and part way back again during the year, showing that the conditions are not permanent, but are dependent in a large degree upon the efforts of the traction company to return the current to the power station. The insert gives the result of two full days' volt meter readings at the station in the basement of the City Hall.

WATER WORKS STATISTICS FOR THE YEAR 1903.

IN ACCORDANCE WITH FORM ADOPTED BY THE NEW ENGLAND
WATER WORKS ASSOCIATION.

Providence Water Works, Providence County, R. I.

Population of Providence,	188,500
Estimated population supplied in suburbs,	14,300
Date of construction,	1870 to 1876.
By whom owned,	City of Providence.
Source of supply,	Pawtuxet river, in the Town of Cranston.
Mode of supply,	

The water is pumped from the Pawtuxet river into a storage reservoir located upon a hill about one mile distant. From this reservoir it flows into the city by gravitation, directly supplying a second storage reservoir within the city limits, and also that portion of the city which is of sufficiently low elevation to be served by gravitation. To supply that part of the city of too high an elevation to be served by these reservoirs, a third reservoir is located in the Town of North Providence. The water is pumped by supplementary pumping machinery from the second reservoir above mentioned or from the mains, into the high service reservoir. This supplementary pumping machinery can also supply the high service district, if the reservoir should be out of service, by pumping directly into the mains.

In addition to the regular distribution pipes there is an independent high pressure fire system (deriving its supply from the high service), for protecting an area of about one-half of one square mile in the centre of the business portion of the city.

PUMPING.

1. Builders of pumping machinery,

- a. Worthington Duplex engine, built by Henry R. Worthington. (Out of service.)
- b. Cornish engine, built by Paulding, Kemble & Co.
- c. Corliss Vertical engine, built by George H. Corliss.

- d. Worthington Triple Expansion engine, built by Henry R. Worthington.
- e. Nagle High Service engine, built by the Providence Steam Engine Co.
- f. Holly High Service engine, built by the Holly Manufacturing Co.
- | | | |
|-------------------------------------|----------|---------------------------|
| Worthington
Triple
Expansion. | Corliss. | Holly
High
Service. |
|-------------------------------------|----------|---------------------------|

2. Description of coal used,

	Bituminous.	Bituminous.	Anthracite egg, pea and No. 2 and 3 buckwheat.
b.	George's Creek Cumberland, Pocahontas and New River.	George's Creek Cumberland, Pocahontas and New River.	Beaver Meadow, Pittston and Scranton.
c.	Price, per gross ton delivered,		
	\$5.22	\$5.59	\$4.37
d.	Percentage of ash,		
	9.6	13.8	22.5
e.	Wood, price per cord,		
	\$4.50	\$4.50	\$4.94
f.	Oil, price, \$0.0375 per gallon.		

3. Coal consumed for the year, in pounds,

*5,358,840	†537,900	1,254,944
------------	----------	-----------

4. [Pounds of wood consumed] ÷ 3 = equivalent amount of coal in pounds,

167	5,500	1,831
-----	-------	-------

4a. Amount of other fuel used,

262,975 gallons	.....	.....
of fuel oil, January 1 to May 4.		

5. Total equivalent coal consumed for the year, (3) + (4) in pounds,

*5,359,007	543,400	1,256,775
------------	---------	-----------

6. Total pumpage for the year in gallons, with allowance for slip,

1,555,805,065 to May 4.	335,656,058	569,976,223
2,941,989,468 after " "		

* May 4th to December 31.

† Not including 36,300 pounds when engine was not in service.

	Worthington.	Corliass.	Holly.
7. Average static head against which pumps work, in feet,			
176.99 May 4 to Dec. 31.	171.53	112.48	
8. Average dynamic head against which pumps work, in feet,			
176.80 May 4 to Dec. 31.	177.80	127.96	
9. Number of gallons pumped per pound of equivalent coal (5),			
549 May 4 to Dec. 31.	618	454	
10. Duty = $\frac{\text{Gallons pumped (6)} \times 8.34 \text{ (lbs.)} \times 100 \times \text{dynamic head (8)}}{\text{Total fuel consumed (5)}}$,			
80,947,800 May 4 to Dec. 31.	91,595,200	48,399,300	

COST OF PUMPING, FIGURED ON PUMPING STATION EXPENSES, VIZ.: \$35,-952.19 FOR THE LOW SERVICE, AND \$6,467.08 FOR THE HIGH SERVICE.

11. a. Per million gallons pumped into low service reservoir, the cost was	\$7.44
b. Into high service reservoir (pumped twice, \$7.44 + \$11.35),	\$18.79
12. Per million gallons raised one foot high (dynamic), low service, the cost was	\$0.0420
High Service (pumped twice, \$0.0420 + \$0.0887), the cost was	\$0.1307
O. Net cost of works to date,	\$6,569,925.22
P. Bonded debt at date,	\$6,009,000.00
P ¹ . Floating debt at date,	\$93,000.00
Q. Value of Sinking Fund at date,	\$1,562,158.44
R. Average rate of interest,	\$0.0375+

CONSUMPTION.

1. Estimated total population of district at date,	202,800
2. { Estimated population on lines of pipe, }	Number not taking city water so small that total population is used.
3. { Estimated population supplied, }	

4.	Total number of gallons consumed for year,	4,786,834,205
5.	{ Passed through meters, Percentage of consumption metered, }	Estimated about 80 per cent.
6.		
7.	Average daily consumption in gallons.	13,114,614
8.	Gallons per day to each inhabitant,	65
10.	Gallons per day to each tap (Distribution 22),	562

DISTRIBUTION.

MAINS.*

1.	Kind of pipes used,	Cast iron.
2.	Sizes,	From 6 to 36 inches.
3.	Extended,	30,315.22 feet.
4.	Discontinued,	2,634.30 feet.
5.	Total now in use, †	341.3986 miles.
7.	Number of leaks for year, 20, 18 of which were joints (13 being due to settlement), 2 cracked pipe, repairs costing \$111.30	
8.	Small distribution pipes, less than four inches, total length,	None.
9.	Fire hydrants added, ‡	29
10.	Number of hydrants now in use, ‡ (a) fire,	1989
	(b) watering cart hydrants or street sprinklers,	64
	(c) car sprinkler hydrants,	21
11.	Stop gates added,	76
12.	Number now in use,	3,606

* Not including high pressure fire service.

† Includes 10,084 feet of 36-inch pipe, 561 feet of 30-inch pipe, and 685 feet of 24-inch pipe, which are force mains, and 19.63 feet of 30-inch pipe, and 19,478.46 feet of 24-inch pipe, which are used both as a force and delivery main.

‡ Not including high pressure fire service, or private hydrants.

13. Stop gates less than four inches,	None
14. Number of blow-off gates,	32
15. Range of pressure on mains at centre of city for day and night,	64 to 73 lbs.

HIGH PRESSURE FIRE SERVICE.

Kind of pipes used,	Cast iron.
Size,	12, 16, and 24-inch.
Total now in use,	5,569½ miles.
Hydrants added,	None.
Number now in use,	92
Stop gates now in use,	31
Number of blow-off gates,	4
Pressure on mains at centre of business portion of city, for day and night,	114 lbs.

SERVICES.

16. Kind of pipe,	Lead from ½ to 1½ inches, and cast iron.
17. Sizes,	From ½ to 10 inches.
21. Services added,	579
22. Number now in use,	23,332
25. Meters added,	622
26. Number now in use,	19,838
27. Percentage of services metered,	85
29. Elevator supplies added,	7
39. Number now in use, 156 of 4 and 6-inch, and 20 smaller supplies connected to house elevators.	

REMARKS.

The Cornish engine was not run during the year.

The Worthington Duplex engine was not run during the year. (Out of service.)

The Corliss Vertical engine was run on 100 days.

The Worthington Triple Expansion engine was run on 365 days.

The Nagle engine was not run during the year.

The Holly engine was run on 305 days.

The work relating to this department has been in charge of Irving S. Wood, Assistant Engineer.

SEWERS.

The following is a statement of the total lengths of each size of regular sewers constructed to January 1, 1904:

SIZES.	KINDS.	Constructed previous to 1903.	Constructed in 1903.	Totals.
66x72 oval.....	Brick.....	992.81		992.81
60x64 ".....	".....	184.06		184.06
48x72 ".....	".....	141.75		141.75
44x66 ".....	".....	659.57		659.57
40x60 ".....	".....	5,288.82		5,288.82
38x57 ".....	".....	4,681.00		4,681.00
36x54 ".....	".....	4,202.43		4,202.43
34x51 ".....	".....	834.37		834.37
32x48 ".....	".....	1,293.89		1,293.89
30x45 ".....	".....	4,538.34		4,538.34
28x42 ".....	".....	6,504.81	797.13	7,301.94
26x39 ".....	".....	5,397.12		5,397.12
24x36 ".....	".....	9,915.48		9,915.48
22x33 ".....	".....	10,397.59		10,397.59
20x30 ".....	".....	12,015.81		12,015.81
18x28 ".....	".....	142.00		142.00
16x24 ".....	".....	482.00		482.00
66 circular.....	".....	4,025.55		4,025.55
64 ".....	".....	1,216.71		1,216.71
60 ".....	".....	53.44		53.44
56 ".....	".....	1,448.00		1,448.00
54 ".....	".....	268.86		268.86
52 ".....	".....	657.31		657.31
48 ".....	".....	4,422.34		4,422.34
44 ".....	".....		596.45	596.45
42 ".....	".....	1,115.67		1,115.67
40 ".....	".....	630.05		630.05
38 ".....	".....	966.52		966.52
36 ".....	".....	1,823.99		1,823.99
34 ".....	".....	1,742.73		1,742.73
32 ".....	".....	2,484.90	309.28	2,794.18
30 ".....	".....	4,365.36		4,365.36
28 ".....	".....	2,550.21		2,550.21
26 ".....	".....	2,114.33	554.12	2,668.45
24 ".....	".....	14,440.74	551.15	14,991.89
22 ".....	".....	15,575.92		15,575.92
20 ".....	".....	32,080.37	2824.00	34,904.37
18 ".....	".....	28,693.59	497.22	29,190.81
16 ".....	".....	7,453.08		7,453.08
14 ".....	Pipe.....	4,295.97		4,295.97
12 ".....	".....	80,066.11	2408.21	82,474.32
10 ".....	".....	496,604.29	12684.62	511,284.91
8 ".....	".....	84,433.21	1403.26	85,836.47
6 " iron.....	".....	218.37		218.37
Total lengths in feet.....		863,893.07	22925.44	886,818.51
" " " miles.....		163.6161	4.2851	167.9012

the year:

CIRCULAR BRICK SEWER.						OVAL BRICK SEWER.	TOTALS.
	20 inch.	24 inch.	26 inch.	32 inch.	44 inch.	28 x 42 inch.	
A			554.12				919.48
A	329.57	141.93					1630.23
B	1783.91						1817.27
B		230.84					4102.57
B							3.50
C							954.95
C	487.74						2312.96
C							18.67
E							164.85
H							56.00
H							1390.01
J							545.96
M				309.28	596.45		1055.93
M							80.46
M						797.13	896.71
S							1925.30
T							978.23
V							366.25
V	222.78	178.38					2090.31
V							1236.75
V							125.92
Σ	2824.00	551.15	554.12	309.28	596.45	797.13	22,672.31
	1.0099					0.1509	4.2940
							46.87
Σ	2824.00	551.15	554.12	309.28	596.45	797.13	22,625.44
	1.0099					0.1509	4.2851

The average depth of cut, nature of excavation, and contract cost of labor per foot, on the different sizes of regular sewers built during 1903, have been as follows :

ITEMS.	Average Nature of Excavation.	Average Depth of Cut.	Average Cost per Foot.
6-inch pipe in drains to curb line.	Fine sand, dry.....	10.50	\$.56
6 " " " " " " " "	Sand and gravel, dry.....	10.50	.58
6 " " " " " " " "	Hard pan, wet.....	10.50	.70
8 " " " basin connections.	Fine sand, dry.....	8.00	.65
8 " " " " " " " "	Sand and gravel, dry.....	8.00	.45
8 " " " " " " " "	Hard pan.....	8.00	.70
8 " " " " " " " "	Rock.....	8.00	.70
8 " " sewer.....	Fine sand, dry.....	11.67	.80
8 " " " " " " " "	" " wet.....	11.67	.80
8 " " " " " " " "	Sand and gravel, dry.....	11.67	.80
12 " " " " " " " "	Fine sand, dry.....	12.00	.90
12 " " " " " " " "	" " wet.....	12.00	.90
12 " " " " " " " "	Sand and gravel, dry.....	12.00	.79
12 " " " " " " " "	Hard pan.....	12.00	.90
12 " " " " " " " "	Rock.....	12.00	.85
15 " " " " " " " "	Fine sand, wet.....	12.25	.90
15 " " " " " " " "	Sand and gravel, dry.....	12.25	.85
15 " " " " " " " "	Hard pan, wet.....	12.25	1.00
18 " brick single course.....	Fine sand, wet.....	12.50	2.00
20 " " " " " " " "	" " dry.....	12.67	2.00
20 " " " " " " " "	Sand and gravel, dry.....	12.67	2.00
20 " " " " " " " "	" " wet.....	16.50	3.75
20 " " " " " " " "	Hard pan.....	12.67	2.20
24 " " " " " " " "	Fine sand, dry.....	13.00	1.85
24 " " " " " " " "	Sand and gravel, dry.....	13.00	2.00
24 " " " " " " " "	Hard pan.....	13.00	2.25
26 " " " " " " " "	Sand, gravel and filling.....	10.50	2.50
32 " " " double " " " "	Sand and gravel, dry.....	12.75	3.25
44 " " " " " " " "	" " " " " " " "	13.00	4.50
28x42-in. " " " " " " " "	" " " " wet.....	14.00	3.00
Average cost of building manholes, each.....			14.74
" " " " catch-basin, each.....			13.45
" " " " extra inlets, each.....			7.75

The following is a tabular statement in regard to all the sewers built under the appropriation for improved sewerage system :

Sizes.	KINDS.	Con- structed previous to 1903.	Con- structed in 1903.	Total Lengths.
86½x94 Horse-shoe single line..	Brick and rubble..	64.25		64.25
86½x94 " " double ..	Brick and concrete	893.52		893.52
76x108 " " ..	Brick { rubble..... concrete.....	1,611.63		1,611.63
70x76 " " ..	Brick and rubble..	701.00		701.00
50x72 " " ..	" " " "	949.14		949.14
44x70 " " ..	" " " "		113.00	113.00
48x72 Oval ..	" " " "		350.00	350.00
48x72 " " ..	Brick ..		1,640.00	1,640.00
46x69 " " ..	Brick and Concrete	773.00		773.00
44x66 " " ..	" " " "	703.00		703.00
40x60 " " ..	" " " "	1,033.00		1,033.00
38x57 " " ..	Brick ..	1,625.79		1,625.79
36x54 " " ..	" " " "	1,407.96		1,407.96
34x51 " " ..	" " " "	3,133.92		3,133.92
32x45 " " ..	" " " "	1,431.09		1,431.09
30x45 " " ..	" " " "	2,297.85		2,297.85
28x42 " " ..	" " " "	4,508.34		4,508.34
26x39 " " ..	" " " "	5,419.44		5,419.44
22x33 " " ..	" " " "	1,289.44		1,289.44
20x30 " " ..	" " " "	2,271.41		2,271.41
18x27 " " ..	" " " "	2,218.78		2,218.78
16x24 " " ..	" " " "	1,466.00		1,466.00
110 Circular ..	Brick and concrete	4,825.79		4,825.79
108 " " ..	" " " "	2,961.61		2,961.61
102 " " ..	Brick { concrete... rubble.....	7,009.49		7,009.49
100 " " ..	Brick and concrete	2,376.53		2,376.53
88 " " ..	" " " "	1,335.00		1,335.00
88 " " ..	Brick ..	473.72		473.72
80 " " ..	Brick and concrete	4,379.42		4,379.42
78 " " ..	Brick { concrete... rubble.....	966.40		966.40
74 " " ..	Brick and concrete	3,125.39		3,125.39
70 " " ..	Brick { concrete... rubble.....	4,161.10		4,161.10
68 " " ..	Brick and rubble..	4,239.49		4,239.49
66 " " ..	Brick and concrete	1,363.55		1,363.55
62 " " ..	" " " "	4,898.55		4,898.55
60 " " ..	Brick { concrete... rubble.....	3,960.55		3,960.55
58 " " ..	Brick and concrete	1,079.67		1,079.67
56 " " ..	Brick ..	646.99		646.99
54 " " ..	Brick { concrete... rubble.....	4,581.79		4,581.79
52 " " ..	Brick ..	1,524.34		1,524.34
50 " " ..	Brick { concrete... rubble.....	1,230.23	155.82	1,386.05
48 " " ..	Brick ..	1,180.22		1,180.22
46 " " ..	Brick { concrete... rubble.....	12,935.43	572.06	13,508.09
44 " " ..	Brick and rubble..	1,490.81		1,490.81
42 " " ..	Brick and concrete	324.04	796.57	1,120.61
40 " " ..	Brick and rubble..	387.50		387.50
38 " " ..	Brick and concrete	1,846.29	2.49	1,848.78
36 " " ..	Brick { concrete... rubble.....	479.61		479.61
36 " " ..	Brick { concrete... rubble.....	8,638.59	1,290.00	9,926.59
34 " " ..	Brick and rubble..	539.60		539.60
32 " " ..	" " " "	235.73		235.73
30 " " ..	" " " "	898.47	162.00	1,060.47
28 " " ..	Brick ..	46.83		46.83
26 " " ..	" " " "	382.28		382.28
24 " " ..	" " " "	3,817.14		3,817.14
22 " " ..	" " " "	620.10		620.10
20 " " ..	Brick and concrete	2,142.79	8.00	2,150.79
18 " " ..	Brick ..	500.35		500.35
48 " " double line.	Iron ..	705.31		705.31
48 " " single ..	" " " "	253.20		253.20
36 " " ..	" " " "	180.00		180.00
16 " " ..	" " " "	61.80		61.80
12 " " ..	" " " "		10.00	10.00
20 " " ..	Pipe ..	316.00	30.00	346.00
18 " " ..	" " " "	3,743.68		3,743.68
15 " " ..	" " " "	3,063.62	2,932.57	6,596.19
12 " " ..	" " " "	6,058.12	86.40	6,144.52
8 " " ..	" " " "	1,019.35	15.85	1,035.20
6 " " ..	" " " "	330.30		330.30
Total lengths in feet ..		141,633.33	8,195.36	149,828.69
" " " " miles ..		26.8245	1.5521	28.3766

Tabular statement in regard to sewers built under the appropriation for improved sewerage system during 1903:

SECTIONS.	ORDERED.		Completed.	Sizes in Inches.	Kinds.	Lengths.
	Real'n No.	Date.				
Section No. 27.....	381	Oct. 4, 1901	May 16, 1903	48	Cir. brick ...	572.66
" " "	"	" " "	" " "	15	Pipe.....	30.00
" " "	"	" " "	" " "	12	"	33.00
" " "	"	" " "	" " "	12	Iron.....	10.00
" " 28.....	572	Dec. 20, 1895	June 17, 1903	40	Cir. brick...	2.49
" " "	"	" " "	" " "	36	" " ...	1,290.00
" " "	"	" " "	" " "	20	" " ...	8.00
" " "	"	" " "	" " "	15	Pipe.....	6.00
" " "	"	" " "	" " "	12	" ...	53.40
" " "	"	" " "	" " "	8	" ...	115.00
" " 29.....	196	June 6, 1902	April 16, 1903	50	Cir. brick...	155.82
" " "	"	" " "	" " "	8	Pipe	3.25
" " 30.....	136	April 7, 1903	Dec. 31, 1903	44 x 70	Horse shoe shape brick	118.00
" " "	"	" " "	" " "	48 x 72	Oval brick...	1,990.00
" " "	"	" " "	" " "	44	Cir. brick...	796.57
" " "	"	" " "	" " "	30	" " ...	162.00
" " "	"	" " "	" " "	15	Pipe.....	2,896.57
Ledge street.....			Sept. 2, 1903	20	"	30.00
Total length in feet..						8,267.76
" " " miles.....						1.566
Discontinued, Merino avenue.....				8	Pipe.....	72.40
Total length in feet, in use.....						8,195.36
Total length in miles, in use.....						1.562

From the preceding tables it will be seen that 4.285 miles of regular sewers have been built during the year 1903, of which 3.124 miles were of pipe, and 1.161 miles were of brick, making the total length to date, 129.589 miles of pipe, and 38.312 miles of brick sewer.

In addition to the regular sewers, 1.552 miles of sewers have been built under the appropriation for improved sewerage, making a total of 5.837 miles of sewers built during the past year, and a total of 196.278 miles of sewers in the sewerage system.

Total length of storm sewers to date, 7.50 miles.

Ninety-nine catch basins, ninety-eight extra inlets, and two hundred and thirty-five manholes have been built and connected with the sewerage system during the past year.

The total number of catch basins in use is four thousand five hundred and ninety-six.

The total number of manholes in use is eight thousand four hundred and one.

The total length of six-inch drains extended to the curb-line during 1903, under Legislative Act of June, 1894, was 10,376.17 feet, or 1.965 miles, making a total of 20.164 miles laid to date under said act, and assessed for with the sewer assessment.

The number of house connections made in 1903 was five hundred and fifty-five, making the total number connected to date, seventeen thousand three hundred and seventy-five.

In addition to this there were granted for the year four hundred and eighty-two extension permits.

Estimates, surveys and plans have been made and lines and grades given for the sewers constructed during the year, as shown by the preceding tables.

Estimates and surveys have been made and plans partially completed for sewers ordered and already contracted for, but work not commenced, as follows:

Elton street. In Elton street, from a point 100 feet east of Taber avenue to Elmgrove avenue.

Reservoir avenue. In Reservoir avenue, west side, from Crescent street to Algonquin street.

Vandewater street. In Vandewater street, from Douglas avenue to Branch avenue.

West Park and Bath streets. In West Park street, from Bath street to Valley street; and in Bath street, from Orms street to Calverley street.

Plans for sewer assessments on the following streets, in which sewers have been constructed, have been furnished to the Commissioner of Public Works:

Bellevue avenue, from near Elmwood avenue to Bucklin street.

Calais street, from north line of Okie street to Edith street; Edith street, from Calais street to Leland street; and Leland street, from Edith street to Promenade street.

Calais street, from a point about 60 feet south of Jewett street to Okie street; and West Park street, from Holden street to Calverley street.

Cemetery and Frost streets, from Pawtucket avenue to the Moshassuck river.

Doane and Everett avenues, from Wayland avenue to Elmgrove avenue.

Douglas avenue, from near Vale street to Admiral street; and Camden avenue, from Vale street to Douglas avenue.

Grand View street, from North Main street to Knowles street; and Woodbine street, from Camp street to North Main street.

Hamlin street, from Elmwood avenue easterly to line of Roger Williams Park.

Laurel Hill avenue, from Pocasset avenue to Plainfield street.

Massachusetts avenue, from Virginia avenue to Broad street.

Moses Brown street, from Angell street to South Angell street.

North Main street, from the city line to Frost street.

Oriole avenue, from near Paterson street to Rhode Island avenue; and Rhode Island avenue, from Oriole avenue to Angell street.

Oxford street, from near Eddy street to Allen's avenue.

Phillips street, from about 70 feet east of Hope street to Morris avenue.

President avenue, from Arlington avenue to Wayland avenue.

Primrose street, from a point about 70 feet east of Vinton street to Vernon street; Walnut street, from Washington street to Westminster street; and Byron street, from a point near Pine street to Broad street.

Sears avenue, from Atwells avenue to Rangeley avenue.

Seventh street, from Summit avenue to North Main street.

Smithfield avenue, from a point 950 feet north of Branch avenue to Branch avenue; and Branch avenue, westerly about 250 feet to the main sewer across Branch avenue, known as Section 24.

Suffolk street, from Salina street to Admiral street.

Summit avenue, from Fourth street to Seventh street.

Tenth street, from North Main street to Highland avenue.

Unit street, from Maynard street to Manton avenue.

On all the above named sewers the length and cost of drains laid to the curb lines have been made out and returned with the assessments.

To ensure a proper location of drains to the curb, about three hundred abutting owners have been communicated with, either personally or by mail.

Sections 27 and 28, in progress at writing of last report, have been completed. In connection with the building of Section 28, a storm sewer has been built in Branch avenue, from Veazie street to the West river. By the completion of these sections it is now possible to extend the lateral sewers into the whole of the area draining into the West river.

After negotiations, which had been in progress for several years, an agreement was made January 3, 1903, with the Corporation of the Butler Hospital for a right of way for the construction of a sewer from the Blackstone boulevard to the Seekonk river. The work of the construction of this sewer was begun June 10, 1903, and practically completed January 1, 1904. This line is built on the separate system and comprises a storm sewer of the following sizes and lengths: 113 feet of 44 in. by 70 in.; 1990 feet of 48 inch by 72 in.; 796.57 feet of 44 in. and 162 feet of 30 inch; also on the side of the storm sewer a 15-inch pipe sewer 2896.57 feet in length, for the conveyance of sewage alone. This sewer furnishes an outlet for the district draining into Blackstone boulevard from the west, at the low point about 600 feet north of Rochambeau avenue, covering an area of about 253 acres.

Under the agreement there remains to be constructed from the present outlet of this sewer, southerly along the shore to the south line of the hospital grounds, an extension of the 15-inch sewer for sewage purposes only. This must be built before January 3, 1908.

An agreement has also been made with the heirs of William Grosvenor for a right of way to construct a sewer along the southerly, northerly, and easterly boundaries of their property, from near Academy avenue to Chalkstone avenue, at Davis Park. This will furnish a satisfactory outlet for the Pleasant Valley district, an area of nearly nine hundred acres. Surveys have been made and plans are in preparation for the construction of this line.

Work is in progress for building a storm sewer in Dudley street, from Plain street to Eddy street, and across the city yard to tidewater, to relieve the excess of storm water at junction of Plain, Pearl, and Dudley streets.

Plans are also made for a storm sewer in Brook and Thayer streets, from Angell street to tidewater, the construction of which will commence in the spring.

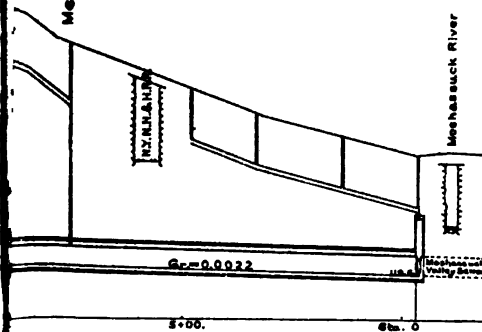
The sewer built this season in Merino avenue, although built as a part of the regular construction, can be used at present for storm water only, and will not be available for house drainage until the main intercepting sewer is extended from its present terminus at junction of Sheridan and King streets, northwesterly along the Woonasquatucket river to Merino avenue. A right of way should be secured for this, while there are only one or two parties to negotiate with, and before some manufacturing plant is located on the line proposed.

It was originally designed to drain the West river district, in the neighborhood of Geneva and Wanskuck, by a sewer following the course of the West river from Wan-

skuck to its junction with the Moshassuck river near the Allen Print Works, but to get rid of exorbitant charges for rights of way, and to avoid lengthy and expensive litigation, which was threatened, it was decided to attain the same object by a tunnel under Branch avenue, from the Moshassuck river to Wanskuck. This tunnel is 3953.66 feet in length, with an inside diameter of 48 inches, the form of construction being shown on accompanying plan and section. About 1400 feet of the excavation was in dry sand and gravel, the remainder in quicksand. The excavation was by means of a shield pushed forward by hydraulic jacks, the whole the design of Mr. Charles A. Haskins, of Boston. This shield was 6 feet 4 inches in diameter on the outside and was made in twelve segments bolted together, the whole weighing four and one-half tons, and was pushed forward by six hydraulic jacks worked by a pump capable of developing a pressure of six thousand pounds per square inch. The pressure used varied from 2,500 to 3,500 pounds. The manner of operating the shield and of placing the wooden lagging, which was used to preserve the excavation on advance of the brick work, is seen on accompanying plan and section. In the part where quicksand was found, an air pressure of from twelve to fourteen pounds was used; where the excavation was wet, but not of a quicksand nature, two to four pounds was enough to hold back the water. The average progress was 9.1 feet per day. The largest day's work was 40 feet in 22 hours, or two shifts, work being carried on in two shifts of eleven hours each. Besides the shield, the working plant comprised one 60 H. P. boiler, one hydraulic pump, three pressure fans, two Knowles and one Davidson compressors, two hoisting engines, dump cars, track, and two derricks.

Total cost to the city, \$34.68 per linear foot for labor and material; labor and lumber furnished by contractor; brick, iron and cement furnished by city.

Merchant St.



The contract price for excavation and backfill was \$22.50 per linear foot; brick masonry in Portland cement, \$4.50 per cubic yard; lumber in lagging in place, \$65 per M.

The principal items of material were 1,062,700 bricks at \$10.25 per M., delivered on job; 1,496 barrels of Portland cement at \$1.64, and 974 barrels of Portland cement at \$1.84 per barrel, delivered on job.

The cost of inspection and engineering was about three per cent. of total cost.

The work done at the Sewage Pumping Station on Ernest street is shown by the statistics below.

Total amount pumped for the year is estimated at 7,073,903,808 gallons, at a total outlay for labor, fuel, work in screen chamber, and all other charges, of \$16,534.46, or \$2.3374 per million gallons pumped, or \$0.08737 per million foot gallons pumped.

Daily average for the year.....	19,380,421 gallons
Daily average for wet weather, or days in which the rainfall was enough to visibly affect the quantity pumped	28,838,494 gallons
Daily week-day average for dry weather.....	18,166,088 gallons
Sunday average for dry weather.....	11,025,623 gallons
Difference, almost entirely manufacturing waste.....	7,140,465 gallons
Days on which a measurable quantity of rain fell, but not enough to visibly affect the pumping.....	97
Days on which the pumping was visibly affected.....	49
Days on which no rain fell.....	219

The work at the Precipitation Plant the past year has progressed successfully. The estimated amount of sewage passing through the tanks was 7,439 million gallons, including storm water.

The amount of sludge pumped into the reservoirs was 34,867,000 gallons. The amount of sludge pressed (with

16 presses). was 28,499,000 gallons. The presses were emptied 24,632 times, producing 27,712 tons of sludge cake. The presses were in operation 2,381 1-2 hours.

SUMMARY OF PURIFICATION STATISTICS.

CHEMICAL PRECIPITATION.

1. Population in 1900, 175,597; in 1903, 188,500.
2. Population served by sewers, about 170,000 (estimated).
3. Length of sewerage system in miles: Combined, 193.278; storm sewers, 7.50.
4. Character of sewage: Manufacturing, wool washings, jewelers', dyeing and bleaching wastes, etc.
5. Strength of average sewage (parts per 100,000): Albuminoid ammonia, total 0.875; suspended, 0.377; chlorine, 60.15.
6. Daily flow of sewage in million gallons: Maximum, March 23, 56.684; minimum, May 15, 7.294; average for year, 20.38.
7. Average daily flow of sewage treated: 20,380,000 gallons.
8. Pounds of lime used per million gallons of sewage: 606.
9. Other chemicals used: Copperas, 65 pounds per million gallons.
10. Cubic contents of settling basins up to water surface, when in use, in million gallons: 11.13.
11. Per cent. organic matter removed from sewage in terms of albuminoid ammonia: total, 49.80; suspended, 82.54.
12. Disposition of effluent: Discharge into Providence river off the end of Field's Point under 36 feet of water.
13. Volume of sludge produced in gallons per million gallons of sewage treated: 4,776.
14. Per cent. of solids in sludge: 5.37.
15. Method of sludge disposal: Pressed and cake hauled by steam train to dump one-eighth of a mile away.
16. Cost of treatment per million gallons of sewage: Chemical precipitation, \$3.31; sludge disposal, \$2.44.

SLUDGE PRESSING.

1. Average number of gallons pressed per day: 95,600.
2. Per cent. of solids in wet sludge: 5.37.
3. Pounds of lime added per thousand gallons of sludge: 23.6.
4. Description of machinery used: Sludge pumped by Shone ejectors (2-500 gall.) to storage reservoirs; thence by gravity to forcing receivers (4-8 ft. dia. x 12 ft.); thence forced under 60-80 lbs. pressure per square inch up into the presses. The ejectors and forcing receivers are run by air pressure generated by a 150 and a 50 H. P. air compressor actuated by electric motors; 16 filter presses are used, each with from 43 to 54 plates, with six-inch centre holes, forming cakes 36 inches square and from 1¼ inch to ¾ inch thick, between filter cloths which surround the plates.
5. Hours of operation of machinery daily: Ejector, 6.5; presses, 7.6.

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6. Pounds of coal used per day: Coal used only for heating buildings.
 7. Tons of sludge cake produced daily: 76.
 8. Per cent. of solids in cake: 28.25.
 9. Tons of solids in sludge cake produced daily: 21.4.
 10. Cost of operation per ton of solids: \$2.27.

Quantities per day in above table calculated on basis of 365 days' work.

The work relating to this department has been in charge of John E. Bowen, Assistant Engineer.

HIGHWAYS.

The following streets have been curbed, the gutters paved, sidewalks graveled, and roadway macadamized or graveled. The specifications and plans for doing the work have been furnished to the Commissioner of Public Works, and the detail work marked out for the foreman on the street as requested.

NAME OF STREET.	BETWEEN WHAT POINTS.	DATE ORDERED.	LENGTHS IN FEET.
Alumni avenue.....	Weymouth street and Arlington avenue.....	.....	257
Bolander	Abbott and Grand View streets..	Oct. 16, 1902..	483
Calais	West Park and Jewett streets.....	June 18, 1903..	216
Croyland road.....	Oxford and Sayles streets.....	Oct. 15, 1903..	375
Doane	Elmgrove and Wayland avenues.....	.....	422
Douglas avenue.....	A point 336 feet north of Berkshire street and Admiral street.....	May 16, 1901..	1,346
Hamlin	Elmwood ave. and Roger Williams Park.	Dec. 18, 1902..	627
Hazel	Douglas avenue and General street.....	May 21, 1903..	215
Laurel Hill avenue.	Bend street and Pocasset avenue.....	Oct. 16, 1902..	497
Lenox avenue.....	Melrose and Hamilton streets.....	Dec. 18, 1902..	520
*Morris avenue.....	Olney and Cypress streets.....	Oct. 15, 1903..	1,689
Moses Brown.....	Angell and South Angell streets.....	April 16, 1903..	333
Phillips	Hope street and Morris avenue.....	Nov. 20, 1902..	480
†Promenade	Leland and Calverley streets.....	April 16, 1903..	623
Regent avenue.....	Harold street and River avenue.....	Sept. 17, 1903..	515
Sayles	Gordon and Prairie avenues.....	Oct. 15, 1903..	415
Sears avenue.....	Atwells and Rangeley avenues.....	Dec. 18, 1902..	490
Silver Spring.....	Ashton street and Northup avenue.....	June 18, 1903..	1,151
Suffolk	Admiral and Salina streets.....	Nov. 20, 1902..	320
Tuxedo avenue.....	Amherst street and Atwells avenue.....	May 21, 1903..	475
Wallace.....	Webster and Priscilla avenues.....	June 18, 1903..	489
Weymouth.....	Lloyd avenue and Olney street.....	.....	1,022
Total.			12,860

or 2.435+ miles.

* A small portion unfinished.

† Greater portion of the width of this roadway was paved with granite blocks.



Branch Avenue, concrete base for Asphalt surfacing.



Branch Avenue, finished Asphalt surface.

The following streets have been paved. The specifications and plans for doing the work have been furnished to the Commissioner of Public Works when required. The detail work was marked out for the foreman on the street:

NAME OF STREET.	BETWEEN WHAT POINTS.	LENGTHS IN FEET.	REMARKS.
Branch avenue....	The West river and west side of Vandewater street.....	118	Granite blocks and sand bed.
Branch avenue....	Vandewater and Veazie streets.....	1,624	Asphalt and concrete base.
*Custom House....	Dyer street and a point westerly.....	81	Granite blocks and sand bed.
Douglas avenue, easterly side....	City line and Geneva bridge.....	138	Cobble and sand bed.
*Dyer.....	A point near Custom House street and Post Office court.....	127	Granite blocks and sand bed.
Elmwood avenue, easterly side....	Near Roger Williams Park.....	135	Granite blocks and sand bed.
*Friendship.....	Hay and Peck streets.....	149	Granite blocks and sand bed.
*Hay.....	Pine and Dyer streets.....	250	Granite blocks and sand bed.
Kinsley avenue...	Gaspee street and a point westerly. .	129	Granite blocks and sand bed.
Manton avenue, southerly side....	A point near Unit street and a point westerly.....	2,484	Cobble and sand bed.
†Promenade.....	Leland and Calverley streets.....	623	Granite blocks and broken stone foundation.
Silver Spring.....	Branch avenue and Ashton street.....	359	Granite blocks and sand bed.
Smithfield avenue, west side.....	City line and the railroad bridge.....	1,591	Cobble and sand bed.
Troop lane.....	Charles and Walling streets.....	207	Cobble and sand bed.
	Total.....	8,015	

or 1.517+ miles.

* Partially brought to the established grade.

† A small portion of the width of this roadway was macadamized.

This department has inspected during the year 158,810 granite blocks or 6,108.08 square yards, and made a return of the same to the Commissioner of Public Works.

This department has had charge of relaying the pavement where broken into by various corporations to do under-

ground work, or a total area of 17,200.57 square yards, costing \$19,441.26; the whole expense being paid by the corporation for which the work was done.

The following streets have been practically brought to grade:

NAME OF STREET.	BETWEEN WHAT POINTS.	LENGTHS IN FEET.
*Chad Brown.....	Douglas avenue and Oregon street.....	815
Douglas avenue.....	Southerly side of Branch avenue and the city line..	651
Hastings.....	Ledge street and Northrup avenue.....	512
Hilton.....	Willard avenue and Bogman street.....	512
Ledge.....	Smithfield avenue and Hastings street.....	327
Manton avenue.....	Riverdale street and a point near Unit street.....	1,309
Merino avenue.....	Hartford avenue and Barbara street.....	668
Merino avenue.....	Grimwood and Saxe streets.....	715
*Ninth.....	North Main street and Highland avenue.....	564
Northrup avenue.....	Silver Spring street and a point west of Vaughan street.....	555
Rosedale.....	Messer and Ellery streets.....	306
Smithfield avenue....	Ledge and Cemetery streets.....	1,541
*Weymouth.....	Olney street and Lloyd avenue.....	1,022
Total.....		10,587

or 2.061+ miles.

* Brought to grade by the abutters.

By order of the Commissioner of Public Works, lines and grades have been given and marked out for removal of curbing, in Vinton street, so as to make a driveway into Tell street.

Driveways paved with granite blocks have also been put in, at the request of the Superintendent of Public Buildings, at the New Central Fire Station on Exchange Place; also at

the Fire Station at the junction of Smith and Orms streets. Plans and estimates were furnished preliminary to doing the work.

Lines and grades have been given for resetting curbing or paving gutters in portions of twelve streets, amounting to a total length of ten thousand and forty-four feet, or one and nine hundred and two thousandths miles.

The Providence Telephone Company has furnished during the year thirteen plans of completed work, and the Narragansett Electric Lighting Company three preliminary plans showing the location or contemplated location of their conduits in the various streets. These plans have been properly filed and indexed. The whole number now on file is 131 telephone completed plans, and 189 electric light preliminary plans.

On account of building the new bridge over the Woonasquatucket river in Merino avenue, it became necessary to change the grade of said avenue (formerly Egan street). The estates abutting Merino avenue and extending from the river northerly about 275 feet were adjusted to the new grade. This work required the lowering of two houses and outbuildings and removing about 24,500 cubic yards of loam and gravel. The maximum cut was about fourteen feet. This material was used in the grading of the avenue south of the bridge.

The following work, ordered by the Board of Aldermen or City Council, has not been commenced:

NAME OF STREET.	CHARACTER OF WORK.	BETWEEN WHAT POINTS.	DATE ORDERED.	LENGTH IN FEET.
Bath.....	Curbstones to be set and gutters paved..	Orms and Calverley streets.....	June 18, 1903	1,197
Cole avenue.....	Curbstones to be set and gutters paved..	Lloyd and Irving avenues.....	June 18, 1903	420
Egan.....	Curbstones to be set and gutters paved..	Manton avenue and the bridge.....	Nov. 20, 1902	953
Hilton.....	Curbstones to be set and gutters paved..	Willard avenue and Bogman street....	Dec. 17, 1903	512
University avenue	Curbstones to be set and gutters paved..	Elmgrove and Slater avenues.....	June 18, 1903	1,361
Wayland avenue..	Curbstones to be set and gutters paved..	Lloyd and Irving avenues.....	June 18, 1903	420
			Total.....	4,963

or 0.921+ miles.

Profiles of the following streets have been made for the purpose of defining grades. The contour of the centre and both side lines of the street is shown at fifty feet stations, also the levels of the sills and ground lines of houses adjoining the street. The plan accompanying the profile shows the division of estates, ownership and houses:

NAME OF STREET.	BETWEEN WHAT POINTS.	LENGTHS IN FEET.
Adehaide avenue.....	Crescent street and Reservoir avenue.....	1,500
Alumni avenue.....	Weymouth street and Arlington avenue.....	287
Amsterdam.....	Steuben street and easterly termination.....	490
Audubon avenue.....	Smith street and Kentland avenue.....	1,060
Barre.....	Ridge street and a point southwesterly.....	1,060
Barre.....	Bell and Grove streets.....	200
Bel Air avenue.....	Phillips and Cypress streets.....	397
Benefit.....	George street and a point south of Benevolent street.....	425
*Branch avenue.....	Smithfield avenue and the railroad.....	900
Brightwood avenue.....	Smith street and the city line.....	1,150
Broom.....	Rugby and Eddy streets.....	470
Charlotte Hope.....	Harris avenue and northerly termination.....	579
Edgemere avenue.....	Richland street and Manton avenue.....	874
Exchange place.....	Exchange street and Washington row.....	293
Fairfield avenue.....	Richland street and Manton avenue.....	844
Falmouth.....	Audubon and Stillwater avenues.....	220
Handy.....	Amherst and Amsterdam streets.....	419
Hastings.....	Northup avenue and Ledge street.....	512
Hilton.....	Public street and Willard avenue.....	500
India.....	South Main and Benefit streets.....	320
Ledge.....	Hastings street and Smithfield avenue.....	827
Mallett.....	Bates street and northerly termination.....	170
Petty thoroughfare.....	Killingly street and Hartford avenue.....	1,988
Richland.....	Merino and Fairfield avenues.....	800
Second.....	North Main street and Highland avenue.....	568
Stillwater avenue.....	Brightwood and Kentland avenues.....	850
South Main.....	India street and a point northerly.....	88
Ticonderoga avenue.....	Butler and Rhode Island avenues.....	958
Tingley.....	Sims and Ashley avenues.....	1,150
Weymouth.....	Lloyd avenue and Olney street.....	1,022
Total.....		20,921

or 3.962+ miles.

* Copy of plan of record.

Profiles of the following streets have been made for the water department from which to estimate the cost of laying water pipes. The profile shows the contour and grade over the proposed pipe, and a plan accompanies each profile showing divisions of estates, ownership, and houses. The information shown on these profiles is also valuable when proposing the grades of intersecting streets. The original plans are therefore filed in this department:

NAME OF STREET.	BETWEEN WHAT POINTS.	LENGTHS IN FEET.
Amory.....	Ledge and Bismark streets.....	600
Argot.....	Jasper street and southerly termination.....	180
Ash.....	Hilton and Staniford streets.....	640
Ashton.....	Luna and Chatham streets.....	400
*Atwood.....	Union avenue and Dora street.....	450
Augusta.....	River avenue and Durham street.....	1,019
Baltimore.....	Cortez and Leander streets.....	300
Barker.....	Federal street and Atwells avenue.....	277
Bath.....	Calverley and Orms streets.....	1,200
*Bel Air avenue.....	Phillips street and a point northerly.....	100
Bernard.....	Calla and Babcock streets.....	240
*Blundell.....	Pavilion avenue and a point northerly.....	350
*Bowlet.....	Hartford avenue and a point northerly.....	175
Byfield.....	Broad street and a point easterly.....	290
Calverley.....	Bath street and a point easterly.....	400
Caaswell court.....	Prairie and Willard avenues.....	200
Chad Brown.....	Douglas avenue and Oregon street.....	300
Clarence.....	Webster avenue and a point westerly.....	600
Cumberland.....	Sunnyside street and a point 280 feet south of Augusta street.....	720
Cutler.....	Amherst and Barstow streets.....	275
Dante.....	Admiral and Ceres streets.....	500
David.....	End of pipe and a point northerly.....	80
Dayton court.....	Rugby street and a point easterly.....	180
Devonshire.....	Augusta and Sunnyside streets.....	300
Dora.....	Webster avenue and a point westerly.....	350
Dora.....	Cumerford and Atwood streets.....	250
Dover (Cranston).....	Laurel Hill avenue and a point easterly.....	300
*Dunford.....	Plainfield street and a point southerly.....	250
Dyer avenue (Cranston) ..	A point near Meadow avenue and Fountain avenue.....	240
Eames.....	Morris avenue and Mumford street.....	550
Eastwood avenue.....	End of pipe and Merino street.....	220
Elgin.....	Darien and Hope streets.....	300
Elton.....	Wayland and Humboldt avenues.....	300
Faith.....	Van Zandt and Tyler streets.....	235
*Fisk.....	Bernard street and a point westerly.....	370
Fletcher avenue (Cranston).....	Plainfield and Lincoln streets.....	1,840
Fountain avenue (Cranston).....	Dyer and Princess avenues.....	475
Frederick.....	End of pipe and a point northerly.....	25
Germania ave. (Cranston).....	Bayview avenue and Narragansett street.....	174
Kildstone (Cranston).....	Laurel Hill avenue and a point easterly.....	360
Glooucester.....	Augusta street and a point southerly.....	148
Greeley.....	Sherman and Alaska streets.....	500
Grover.....	Laurel Hill avenue and westerly termination.....	600
Henry (Cranston).....	Warwick avenue and westerly termination.....	500
Herschel.....	Klondike street and a point southerly.....	175
Jasper.....	Job and Argol streets.....	440

NAME OF STREET.	BETWEEN WHAT POINTS.	LENGTHS IN FEET.
Jasper.....	Job street and a point westerly.....	300
Job.....	Bismark and Jasper streets.....	270
*Klondike.....	Woonasquatucket avenue and a point southerly	300
Lawrence (Cranston).....	Laurel Hill avenue and Gladstone street.....	500
Leander.....	Baltimore street and a point southerly.....	500
Lodge.....	Blaine and Amory streets.....	200
*Lyman avenue (Johnston).....	Manton avenue and a point easterly.....	800
Meadow avenue (Cranston).....	Dyer and Princess avenues.....	480
Merino.....	Eastwood avenue and a point northerly.....	500
Moorefield.....	Silver Lake avenue and a point easterly.....	300
Moy.....	Henrietta street and a point southerly.....	150
Narragansett (Cranston).....	Germania avenue and Narragansett boulevard.....	850
*Noble (Cranston).....	Cato street and a point northerly.....	400
*O'Connell.....	Eddy street and a point easterly.....	230
Oppe.....	Branch avenue and Monticello street.....	175
*Pavilion avenue.....	Blundell street and a point easterly.....	100
Payton.....	End of pipe and a point westerly.....	320
Pontiac avenue (Cranston).....	Beckwith and Burnside streets.....	200
Reservoir avenue (Cranston).....	Jackson and Eldridge streets.....	300
Reynolds avenue.....	Prairie avenue and Burnside street.....	550
Richfield avenue (Cranston).....	Reservoir avenue and a point easterly.....	375
Roland court (Cranston).....	Roland avenue and a point easterly.....	150
*Rugby.....	Johnson and Porter streets.....	200
*Sacramento.....	Merino avenue and a point westerly.....	200
*Sefton drive (Cranston).....	Broad street and Narragansett boulevard.....	1,050
Sherman.....	Langdon and Greeley streets.....	225
*Silver Lake avenue.....	Moorefield and Murray streets.....	250
Silver Spring.....	Northup avenue and a point southerly.....	350
Stansbury.....	Douglas avenue and a point easterly.....	300
Stanhope.....	Newbery and Manhattan streets.....	254
Sylvan avenue (Cranston).....	Malvern and Park avenues.....	550
Tell.....	Courtland and Knight streets.....	250
*Vermont (Johnston).....	A point east of Killingly road, and a point easterly.....	50
*Wendell.....	Huntington avenue and a point easterly.....	150
Westwood avenue (Cranston).....	Edgewood and Oak avenues.....	1,200
Total.....		31,826

or 6.027+ miles.

* Former plan used and corrected to date of application.

Grades and curb lines of the following streets have been defined for street construction. The curbing assessments have also been allotted to abutting estates where required:

NAME OF STREET.	BETWEEN WHAT POINTS.	LENGTHS IN FEET.
Alumni avenue.....	Arlington avenue and Weymouth street.....	257
Bolander.....	Abbott and Grand View streets.....	483
Calais.....	Jewett and West Park streets.....	216
Croyland road.....	Oxford and Sayles streets.....	375
Custom House (north side).....	Dyer street and a point westerly.....	81
Douglas avenue.....	A point 336 feet north of Berkshire and All- cant street.....	601
Dyer (west side).....	Custom House street and Post Office court....	127
Friendship (west side).....	Hay street and a point southerly.....	70
Hamlin.....	Elmwood avenue and Roger Williams Park...	627
Hay.....	Pine and Dyer streets.....	250
Hazael.....	Douglas avenue and General street.....	215
Hempstead (south side).....	A point 95 feet west of Elmwood avenue and a point westerly.....	50
Laurel Hill avenue.....	Pocasset avenue and Bend street.....	497
Lenox avenue.....	Hamilton and Melrose streets.....	520
Morris avenue.....	Cypress and Olney streets.....	1,689
Moses Brown.....	South Angell and Angell streets.....	333
Phillips.....	Hope street and Morris avenue.....	440
Promenade.....	Leland and Calverley streets.....	623
Regent avenue.....	Harold street and River avenue.....	515
Sayles.....	Gordon and Prairie avenues.....	415
Sears avenue.....	Atwells and Rangeley avenues.....	490
Silver Spring.....	Ashton street and Northup avenue.....	1,151
Suffolk.....	Admiral and Salina streets.....	320
Tuxedo avenue.....	Atwells avenue and Amherst street.....	475
Wallace.....	Webster and Priscilla avenues.....	489
Weymouth.....	Lloyd avenue and Olney street.....	1,022
	Total.....	12,371

or 2.342+ miles.

Roadway levels have been marked out upon the following streets:

NAME OF STREET.	BETWEEN WHAT POINTS.	LENGTHS IN FEET.
Branch avenue (east side).....	Near Dryden lane.....	127
Canal (east side).....	Near Elizabeth street.....	100
Charles.....	Ashburton street and railroad bridge.....	286
Charles (east side) ..	Randall street and Chalkstone avenue.....	100
Chestnut.....	Pine and Friendship streets.....	209
Custom House	Dyer street and a point westerly ..	81
Dyer.....	A point near Custom House street and Post Office court	127
Elmwood avenue (east side).....	Near Roger Williams Park.....	135
Friendship.....	Dyer and Peck streets.....	149
Hay.....	Dyer and Pine streets	250
India.....	South Water and Benefit streets	568
Kinsley avenue	Gaspee street and a point westerly.....	129
Promenade	Leland and Calverley streets.....	623
South Main.....	India street and a point northerly.....	100
Total		2,984

or 0.565 + miles.

Grades and curb lines of the following streets were marked for the sewer and highway departments for setting catch basin copings and chutes:

Allens avenue, between Henderson and Crary streets.
 Algonquin street, near Reservoir avenue.
 Blackstone boulevard, near Rochambeau avenue.
 Branch avenue, near Vandewater street.
 California avenue, near Virginia avenue.
 Cemetery street, near Nashua street.
 Cole avenue, near University avenue.
 Douglas avenue, near the city line.
 Hastings street, near Northup avenue.
 Hilton street, near Willard avenue.
 Ledge street, near Bismark street.

Manton avenue, near Merino avenue.
Merino avenue, between Saxe and Grimwood streets.
Northup avenue, between Merchant and Metcalf streets.
Regent avenue, between Harold street and River avenue.
Reservoir avenue, near Algonquin street.
Silver Spring street, between Ashton street and Northup avenue.
University avenue, between Wayland and Cole avenues.
Wallace street, near Priscilla avenue.
Wayland avenue, near University avenue.
Weymouth street, between Lloyd avenue and Olney street.

Vertical locations of street railroad tracks have been marked at intervals of about fifty feet for the laying of the rails in streets as follows:

Allen's avenue, between Crary and Henderson streets.
Atwell's avenue, between Harris avenue and Acorn street.
Blackstone boulevard, between Butler and Rochambeau avenues (at street intersections).
Branch avenue, between bridge over Moshassuck river and a point 200 feet westerly.
Branch avenue, between Silver Spring street and Douglas avenue.
Butler avenue, near Blackstone boulevard (curve).
Chalkstone avenue, opposite Davis Park (curve).
Charles street, near the West river.
Douglas avenue, between Veazie and O'Neil streets.
Douglas avenue, between Geneva bridge and the city line.
Eddy street, at the American Screw Co. (curve).
Elmwood avenue, at the Park Brew Co. (curve).
Hartford avenue, between a point 100 feet west of Laurel Hill avenue and a point westerly.
Hastings street, between Northup avenue and Ledge street.
India street, between Benefit and South Water streets.
India street, between Brook and Ives streets.
Ledge street, between Hastings street and Smithfield avenue.
Silver Spring street, between Charles street and Northup avenue.
Smithfield avenue, between Ledge street and the city line.
South Main street, between India street and a point 100 feet north-erly.
West approach, between Railroad terrace and a point southerly.

A total length of 21,369 feet, or 4.047 + miles.

On account of connecting the track in Butler avenue with the proposed track to be laid in the boulevard, it was necessary to rebuild the roadway from the angle in Butler avenue to Irving avenue. This work was done at the expense of the Rhode Island Company.

Grades of the following streets have been marked upon the ground at intervals of about fifty feet for street grading, or for the benefit of individuals owning abutting property:

NAME OF STREET.	BETWEEN WHAT POINTS.	LENGTHS IN FEET.
Adelaide avenue.....	Crescent street and railroad bridge.....	1,340
Allens avenue	Henderson and Crary streets.....	737
Alumni avenue	Weymouth street and Arlington avenue.....	257
Chad Brown.....	Douglas avenue and Oregon street.....	815
Charlotte Hope.....	Harris avenue and Tingley street.....	220
Douglas avenue.....	Branch avenue and the city line.....	651
Friendship (west side)....	Hay street and a point southerly	70
Hamilton	Adelaide and Lenox avenues.....	222
Hastings	Ledge street and Northup avenue.....	512
Hay	Dyer and Pine streets.....	250
Hilton.....	Willard avenue and Bogman street.....	512
Ledge.....	Smithfield avenue and Hastings street.....	811
Merino avenue.....	Manton avenue and Grimwood street	409
Merino avenue.....	Barbara street and Hartford avenue.....	688
Morris avenue (east side).	Olney street and a point northerly.....	150
Morris avenue	Doyle avenue and Cypress street.....	646
Ninth... ..	North Main street and Highland avenue.....	564
Northup avenue	Silver Spring street and a point west of Vaughan street.....	855
Olney (north side)	Morris avenue and a point easterly.....	50
Rosedale.....	Messer and Ellery streets.....	806
Silver Spring	Northup avenue and Ashton street.....	1,151
Tenth.....	Highland and Summit avenues.....	520
Weymouth.....	Olney street and Lloyd avenue.....	1,022
Total		13,238

or 2.507 + miles.

Grades, either proposed or established, have been defined and marked out upon the ground for parties intending to build as follows:

STREETS.	FOR	REMARKS.
Academy avenue.....	Frank Murray.....	Established.
Academy avenue.....	Barney Toman.....	"
Adelaide avenue.....	Bridge Department.....	Proposed.
Alabama avenue.....	American Trust Co.....	Established.
Andrews avenue.....	Culmidina Rabel.....	Defined.
Anthony avenue.....	Amos Perry estate.....	"
Anthony avenue.....	R. I. Briggs.....	"
Ascham.....	Carminc Bruno.....	"
Ashton.....	B. F. G. McCauley.....	Proposed.
Habcock.....	L. P. Langworthy.....	Defined.
Habcock.....	American Trust Co.....	"
Barre.....	Henry Whalen.....	"
Barre.....	Henry Whalen.....	Proposed.
Bath.....	American Trust Co.....	"
Bel Air avenue.....	E. H. McDonald.....	Defined.
Berkley.....	Axel L. Wickland.....	"
Berkshire.....	Charles W. Nass.....	"
Bernard.....	American Trust Co.....	Proposed.
Boylston avenue.....	Walter B. Jacobs.....	Changed.
California avenue.....	American Trust Co.....	Defined.
Calla.....	American Trust Co.....	"
Calla.....	Joseph M. Murray.....	"
Calla.....	William B. Hill.....	"
Camden avenue.....	F. O. Anderson.....	Changed.
Cedar.....	Vincenzo Bufalo.....	Defined.
Chalkstone avenue.....	John Casey.....	Established.
Chalkstone avenue.....	Thomas McCoid.....	Proposed.
Clarence.....	Bridget Kelly.....	Defined.
Concord.....	William M. Harris.....	"
Dora.....	S. A. Whitford.....	"
Dora.....	F. B. Healy.....	Changed.
Dora.....	Albert L. Cole.....	Defined.
Dunford.....	Hannah A. Birch.....	"
Dunford.....	W. E. Waterman.....	"
Dyer.....	Waterman Land Co.....	Changed.
Early.....	Martin Ohman.....	Defined.
East River.....	American Emery Wheel Works.....	Established.
Eliza.....	Hugo J. Frost.....	Defined.
Elmdale avenue.....	Charles Keech.....	"
Elmdale avenue.....	Robert McGhee.....	"
Elton, 2 applications.....	William A. Harris.....	Established.
Falmouth.....	E. A. Carter.....	Defined.
Fones alley.....	Mrs. L. L. Peck.....	"
Fones alley.....	Prov. Telephone Co.....	"
Frankfort.....	Levi M. Kelley.....	"
Frost.....	Mary K. Allen.....	"
Fruit Hill avenue.....	Christopher L. Holden.....	Changed.
Goff.....	J. William Moore.....	Defined.
Goff.....	J. William Moore.....	Changed.
Grand View.....	William A. Talty.....	Defined.
Grosvenor.....	Francis Flood.....	"
Hassan.....	Antonio Jackvony.....	"
Hawkins.....	Raffaele Cappelo.....	Established.
Hawkins.....	Nicolo Ricci.....	"
Hawkins.....	Pasquale Villella.....	"
Hawkins.....	James Ricci.....	"
Indiana avenue, 12 appli- cations.....	American Trust Co.....	Defined.
Indiana avenue.....	James G. Lind.....	"
Laurel Hill avenue.....	Lydia B. Barnes.....	Changed.
Ledge.....	Maurizio Matterdo.....	Defined.
Ledge.....	Giovanni Petrillo.....	"

STREETS.	FOR	REMARKS.
Lincoln avenue.....	Henrietta Williams.....	Defined.
Longfellow.....	R. E. Pohle.....	"
Magnolia.....	Patrick Giblin and wife.....	"
Massachusetts avenue, 2 applications.....	American Trust Co.....	"
Massachusetts avenue.....	Charles V. Fisher, Jr.....	"
Merino avenue.....	William Regan.....	Changed.
Merino avenue.....	Patrick Costello.....	"
Merino avenue.....	William H. Canning.....	"
*Middle (south side).....	Norcross Bros.....	Established.
Montgomery avenue.....	E. M. A. Condon.....	"
Monticello.....	Antonio Jackvony.....	Defined.
Morris avenue.....	Michael Smith.....	"
Murray.....	Culmidina Rabiel.....	"
Ninth.....	John L. Morgan.....	"
Ninth.....	Arthur M. Black.....	"
Norwood avenue.....	John W. Booth.....	Changed.
Oakland avenue.....	M. P. McLaughlin.....	"
Oakland avenue.....	John McLaren.....	Defined.
Ohio avenue.....	Alfred Olson.....	"
Ohio avenue, 3 applications.....	American Trust Co.....	"
Oregon.....	John J. Gaffney.....	"
Park avenue.....	Irving C. Potter.....	Proposed.
Pitman.....	American Emery Wheel Works.....	Changed.
Plymouth.....	George H. White.....	Defined.
Porter, 2 applications.....	Lucien Gay.....	"
Progress avenue.....	May G. Burdick.....	"
Progress avenue.....	Mary E. B. Champlin.....	Changed.
Progress avenue.....	Emeretta B. Lewis.....	"
Rhode Island avenue.....	Mabel S. Armington.....	Proposed.
Rhode Island avenue.....	Mabel S. Armington.....	Defined.
River avenue.....	John F. O'Neill.....	"
Rodman.....	Daniel W. Granderson.....	"
Robin.....	Patrick J. Skeffington.....	"
Robin.....	Peter J. Skeffington.....	"
Robin.....	Patrick J. Davey.....	"
Robin.....	Thomas Mullaney.....	"
Sackett.....	Alden H. Arnold.....	"
Seekonk.....	Abbie M. Millen.....	Proposed.
Sterling avenue.....	Louisa Pike.....	Changed.
Sterling avenue.....	Martha Whitehead.....	Proposed.
Stillwater avenue.....	E. A. Carter.....	Defined.
Taber avenue.....	Mary B. Allen and Edward A. Chesebro.....	"
Tell.....	Angelo Paulino.....	"
Tyler.....	Levi M. Kelley.....	Proposed.
Union avenue.....	Giuseppe Caparilli.....	Defined.
Virginia avenue.....	American Trust Co.....	"
Wallace.....	W. H. Marshall.....	"
Washington avenue, 2 applications.....	Maria L. Wehoskey.....	"
Washington avenue, 3 applications.....	American Trust Co.....	"
Washington avenue.....	William E. Higgins.....	Defined.
Washington avenue.....	Ethel Darling.....	"
Waverly.....	Louis Ducharme.....	Proposed.
*Westminster.....	Caesar Misch.....	Changed.
*Westminster.....	Norcross Bros.....	Established.
*Weybosset.....	Norcross Bros.....	"
Whitehall.....	Bridget Kelly.....	Defined.
Whitehall.....	Napoleon Paquin.....	"

* For sidewalk.

Following is a list of streets upon which grades have been defined, established or changed by the Board of Aldermen during the year:

NAME OF STREET.	BETWEEN WHAT POINTS.	LENGTHS IN FEET.	REMARKS.
Alumni avenue	Weymouth street and Arlington avenue	257	Established May 21
Amsterdam	Steuben street and a point easterly	444	Defined Sept. 17
Audubon avenue	Smith street and the city line	505	June 18
Barre	Ridge street and a point southwesterly	700	Established Mar. 19
Barre	A point 700 feet southwest of Ridge street and a point southwesterly	350	Changed Feb. 19
Bath	Calverley and Orms streets	1,197	Established May 21
Bel Air avenue	Phillips and Cypress streets	397	Defined April 16
Brightwood ave.	Smith and Dalton streets	516	June 18
Catalpa road	Cypress and Larch streets	320	April 16
Edgemere avenue	Richland street and Manton avenue	874	June 18
Fairfield avenue	Richland street and Manton avenue	944	June 18
Fairview	Mt. Pleasant avenue and Carleton street	440	Sept. 17
Falmouth	Audubon and Stillwater avenues	220	June 18
Goff	Eddy street and Allens avenue	794	Changed Oct. 1
Handy	Amherst and Amsterdam streets	419	Defined Sept. 17
Hassan	Nahant and Social streets	443	Oct. 15
Hazard avenue	Morris avenue and a point easterly	140	Changed Oct. 15
James	South Water street and a point easterly	59	Established Jan. 15
Laurel Hill avenue	Pocasset avenue and a point south of Bend street	466	Changed April 16
Mallett	Bates street and northerly termination	170	Defined Nov. 19
Morris avenue	Doyle avenue and Cypress street	738	Changed May 4
Morris avenue	Olney street and Doyle avenue	991	Oct. 15
Morris avenue	Phillips and Cypress streets	382	Nov. 19
Moses Brown	South Angell and Angell streets	333	Established Mar. 19
Okie	Bath street and angle easterly	530	May 21
Olney (north side)	Morris avenue and a point easterly	68	Changed Oct. 15
Petty thoroughfare	Killingly street and Hartford avenue	1,988	Defined Sept. 17
Phillips	Morris avenue and a point westerly	103	Changed May 4
Rhode Island ave.	Angell street and Oriole avenue	220	Established Jan. 15
Rhode Island ave.	Oriole avenue and Blackstone park	585	Defined April 16
Stillwater avenue	Brightwood avenue and the city line	583	June 18
Ticonderoga ave.	Butler and Rhode Island avenues	858	April 16
Waverly	Huntington and Union avenues	996	Sept. 17
Weymouth	Lloyd avenue and Olney street	1,022	Established May 21
Total		19,152	

or 3.627 + miles.

By request of the Committee on Highways, plats of thirty-one streets have been examined to ascertain if grades may be defined for them; also a report has been made upon two streets that have been found at grade in reply to a petition for receiving said streets.

The grades of eight streets or 0.994 lineal miles defined or established by the Town Council of Johnston have been adjusted to the city base and curb line measurement.

During the year estimates of the cost of improving streets were furnished as follows:

FOR STREET CONSTRUCTION.

NAME OF STREET.	MADE BY ORDER OF	WORK ORDERED.				WORK NOT ORDERED.	
		Completed.		Not Completed.			
		Lengths in Feet.	Estimated Cost.	Lengths in Feet.	Estimated Cost.	Lengths in Feet.	Estimated Cost.
Alumna Ave..	Commissioner of Public Works.	257	\$1,496 66	.....	.....	.....	.....
Charles.....	Committee on Highways.....	.....	.....	.....	.....	1,219	\$4,745 02
Weymouth..	Commissioner of Public Works.	1,022	5,399 81	.....	.....	.....	.....
	Total.....	1,279	\$6,896 47	.....	.....	1,219	\$4,745 02

FOR EARTH WORK AND GRADING.

NAME OF STREET.	MADE BY ORDER OF	WORK RECOMMENDED.		WORK NOT RECOMMENDED.	
		Cubic Yards.	Estimated Cost.	Cubic Yards.	Estimated Cost.
Algonquin	Committee on Highways.	295	\$73 75	.....	.....
Chad Brown.....	Committee on Highways.	.....	.....	1,970	\$394 00
Chatham	Committee on Highways.	.....	.....	1,320	264 00
Croyland road....	Committee on Highways.	421	105 25	.....	.....
Dixon.....	Committee on Highways.	.....	.....	880	220 00
*Douglas avenue..	Commissioner of Public Works.....	169	427 72	.....	.....
Elmdale avenue..	Committee on Highways.	.....	.....	244	73 14
Fairview.....	Committee on Highways.	162	56 60	.....	.....
Hanover	Committee on Highways.	.....	.....	911	227 75
Hilton.....	Alderman Reynolds.....	384	96 00	.....	.....
Humboldt avenue.	Committee on Highways.	.....	.....	1,254	689 70
Mallett.....	Committee on Streets .....	.....	.....	135	54 00
Merino avenue....	Commissioner of Public Works.....	25,000	.....	.....	.....
Morris avenue....	Committee on Highways.	.....	.....	130	82 00
Nebraska.....	Committee on Highways.	.....	.....	100	25 00
Oregon.....	Committee on Highways.	.....	.....	1,970	394 00
Rosedale.....	Committee on Highways.	2,210	397 80	.....	.....
Sibley.....	Committee on Highways.	.....	.....	600	150 00
Salina.....	Committee on Highways.	.....	.....	467	163 45
Sayles.....	Committee on Highways.	640	160 00	.....	.....
Unit.....	Committee on Highways.	.....	.....	402	157 20
*Weymouth.....	Commissioner of Public Works.....	944	463 70	.....	.....
Whitehall.....	Committee on Highways.	.....	.....	398	119 49
Total.....		30,225	\$1,780 82	10,781	\$3,013 73

*An estimate of this street was furnished monthly for the payment of the contractor.

Measurements of concrete sidewalks, laid in ninety-three streets, by the different contractors, have been furnished; also the assessments have been made to abutting owners and returns of each made to the Commissioner of Public Works, where required, amounting to 5,699 square yards.

Five sub-divisions of curbing and sidewalk assessments required on account of real estate transfers have been furnished the City Treasurer.

At the request of the Commissioner of Public Works, to present a plan of a proposed street of less grade than those now built between North Main and Benefit streets, a plan and profile of the proposed widening and extension of Thomas street to Waterman street was made. The proposed street would reduce the grade between North Main and Benefit streets from about 12 per cent. to 7.56 per cent.

Recapitulation of work performed by the highway department:

DIVISION.	No. of Streets.	Cost.	LENGTHS.	
			Feet.	Miles.
Streets built and roadway macadamized or graded.....	22	.....	12,860	2.435+
Streets paved.....	13	.....	8,015	1.517+
Streets graded.....	12	.....	10,887	2.061+
Curbing reset or gutters paved.....	12	.....	10,004	1.902+
Work ordered and not commenced.....	6	.....	4,863	0.921+
PROFILES MADE AND GRADES MARKED.				
Profiles for defining grades.....	29	.....	20,921	3.962+
Profiles for water pipe estimates.....	79	.....	31,826	6.027+
Grades marked for street construction.....	26	.....	12,371	2.342+
Roadway levels marked.....	13	.....	2,984	0.565+
Grades marked for sewer department.....	21	.....	.....	.....
Grades marked for railroad construction.....	18	.....	21,369	4.047+
Grades marked for earth grading.....	21	.....	13,238	2.507+
Grades marked for parties intending to build.....	82	137 applications.	.....	.....
Grades changed, established, or defined.....	30	.....	19,152	3.627+
ESTIMATES PREPARED.				
For street construction.....	3	\$11,341 49	2,498	0.473+
For earth grading, 41,006 cubic yards.....	23	4,794 55	.....	.....
For sidewalk pavement, 5,699 square yards.....	93	.....	.....	.....

The length of received streets December 31, 1903, was 232.13 miles measured on street lines, and to street line intersection. But, as it is customary in street construction or street paving to complete the work to the curb line intersection, the lengths in the following tables are measured on those lines and subdivided as follows:

Received streets	238.02 miles
Streets curbed and built.....	161.61 miles
Streets not curbed but the roadway macadam- ized or graveled	28.73 miles
Streets paved	33.00 miles
Streets received, but not improved.....	14.68 miles
Total	238.02 miles

The actual area of street pavement is 730,233 square yards. If this is estimated to an average width of roadway of 30 feet it would be equal to 41.49 lineal miles and is subdivided as follows:

Granite blocks	30.58 miles
Cobble	5.11 miles
Asphalt	4.91 miles
Vulcanite	0.47 miles
Brick	0.42 miles

The work relating to this department has been in charge of J. Vinton Dart, Assistant Engineer.

STREET LINE AND PARK DEPARTMENTS.

STREET LINES.

The following street lines were marked for various parties upon notices of intention to build during the year 1903:

NOTICE NUMBER.	IN NAME OF	STREETS.	REMARKS.
15,544	Frank Yamend.....	Douglas avenue.....	
15,546	Theodore W. Foster.....	Friendship street.....	
15,549	Louise S. Robinson.....	Stokes street.....	
15,550	Harry Payton and wife Sarah.....	Olney street.....	
15,551	J. Samuels & Bro.....	Weybosset street.....	
15,552	Marten Ohman.....	Early street.....	
15,553	Peter Olson.....	Borden street.....	
15,554	Charles W. Nass.....	Admiral and Berkshire streets.....	
15,555	Axel L. Wicklund.....	Berkley street.....	
15,556	Rudolph Gage.....	Mitchell street.....	
15,557	G. E. Boyden.....	Borden street.....	
15,558	L. J. Pierce.....	Greenwich and Bucklin streets.....	
15,559	George H. White.....	Plymouth street.....	
15,560	Antonio Bellino.....	Hewitt street.....	
15,563	Andrew Lynch.....	Oak street.....	
15,564	Charles L. Steere.....	Summer street.....	
15,565	Ellen M. A. Condon.....	Montgomery avenue.....	
15,566	Elizabeth C. M'Laren.....	Bel Air avenue.....	
15,568	Nathan Horovitz.....	Dudley street.....	
15,569	George Jepherson.....	Eddy street.....	
15,570	Simon Smira.....	Fine street.....	
15,571	Margaret V. Steinhoff.....	Borden street.....	
15,572	Joseph P. Stone.....	Allens avenue.....	
15,573	Benjamin Taylor.....	Heath and Laban streets.....	
15,574	Paul Taylor and wife.....	Spruce street.....	
15,578	C. F. Brooks.....	Mathewson and Washington sts.....	
15,580	William A. Harris.....	Elton street.....	
15,582	S. A. Whitford.....	Dora street.....	
15,583	Michael Delgan and wife.....	Borden street.....	
15,584	Antonio F. Capelli.....	Atwells avenue.....	
15,585	John W. Holland, Henry J. Holland and wife.....	Linwood avenue.....	
15,586	Herman P. Pruefer and wife.....	Hanover street.....	
15,587	Hugo J. Trost.....	Eliza street.....	
15,588	Bartholomew Kelly.....	Kenyon street.....	
15,590	Benedetto Mangiante.....	Atwells avenue.....	
15,591	Owen McMann.....	Florence and Amherst streets.....	
15,592	Nicholas Taylor.....	Trainor street.....	
15,593	Augustus W. Bourne.....	Gano street.....	
15,594	Isabella Sullivan.....	Chapin avenue.....	
15,595	Alden H. Arnold.....	Elmwood avenue and Sackett st.....	
15,599	Levi Fisher.....	North Davis street.....	
15,600	F. Anderson.....	Sweet Briar st. and Camden ave.....	
15,601	Dorrance Estate, J. L. Jenks, Trustee.....	Canal street.....	
15,603	Sven E. Persson.....	Thurston street.....	
15,604	Corporation of St. Ste- phen's Church.....	George and Brook streets.....	
15,605	Mrs. Christina Fries.....	Carter street.....	
15,606	James N. Henry.....	Sassafras street.....	
15,609	Edward Blackmore.....	Ashmont street.....	

NOTICE NUMBER.	IN NAME OF	STREETS.	REMARKS.
15,610	Antonio F. Capelli.....	Atwells ave. and Newton street..	Newton st., approximate.
15,611	James Ricci.....	Hawkins street.....	
15,613	J. William Moore.....	Goff street.....	
15,614	Charles Greene.....	Chalkstone avenue.....	
15,616	Augusta K. Martin.....	Webster avenue.....	
15,619	Estate of Charles H. Smith.....	Laura street.....	
15,620	Estate of Charles H. Smith.....	Public street.....	
15,621	Alfred Olsen.....	Ohio avenue.....	
15,622	Joseph Demarco.....	Acorn street.....	
15,623	Antonio Scorpio.....	Knight street.....	
15,624	Antonio D'Amario and wife.....	Arthur avenue.....	
15,627	Antonio Di Stefano and wife.....	Douglas avenue.....	
15,628	Paul Goolgasian.....	Douglas avenue.....	
15,629	Carmino De'Marco.....	West Exchange street.....	
15,631	Frank Murray.....	Academy avenue.....	
15,632	James G. and Ellen S. Lind.....	Indiana and Maryland avenues..	
15,633	John and Peter O'Rourke.....	Sayles and Miner streets.....	
15,634	Mary L. Sargent.....	Silver Spring st. and Branch ave.	
15,635	Frederick W. Foote.....	Westfield street.....	
15,637	Giuseppe Di Ioris and wife.....	Dean street.....	
15,639	B. F. Vaughan.....	Brown and Cushing streets.....	
15,641	Louis Ross.....	Tiber street.....	
15,642	Louis Ross.....	Swiss street.....	
15,643	John F. O'Neill.....	River avenue.....	
15,644	Maurizio Mattaeodo and wife.....	Ledge street.....	
15,645	Stephano Rongo.....	Amory street.....	
15,650	Daniel Mahoney.....	Waterman and East Rivers streets.	
15,651	Michael Lafanci and wife.....	Atwells avenue.....	
15,652	Estate of Amos Perry.....	Anthony and Ninigret avenues..	
15,659	Antoinette H. Potter.....	Congdon street.....	
15,662	James Hines.....	Webster avenue.....	
15,663	Walter B. Jacobs.....	Boylston avenue.....	
15,664	Church of the Holy Rosary.....	Benefit, Traverse, and Pike sts..	
15,665	James A. Foster.....	Mathewson street.....	
15,668	Albert F. Sparr.....	Cumerford and Polly streets.....	
15,670	Salvatore Damore.....	Gesler street.....	
15,671	Salvatore Venditto.....	Knight and Penn streets.....	
15,672	Marcus Shmirer.....	Willard avenue.....	
15,673	Annie E. Ihley.....	Harold street.....	
15,675	Simon Pearlman.....	Atwells avenue.....	
15,676	Alfred H. Whatley.....	Admiral street.....	
15,677	Harry Handy.....	Lowell avenue.....	
15,679	Mary A. Remington.....	Public street.....	
15,680	City of Providence.....	Burnside street.....	
15,681	Thomas F. Quirk.....	Payton street.....	
15,682	Nicola Riccitelli.....	Sutton street.....	
15,684	Nellie E. Card.....	Friendship street.....	
15,685	Ellen O'Connell.....	Vandewater street.....	
15,686	G. D. Storti.....	Arthur avenue.....	
15,687	Union Oil Co.....	Ives street.....	
15,688	Ferdinando Giusti.....	West Exchange street.....	Approximate.
15,690	George S. Baker.....	Waterman st. and Defoe place...	
15,691	Vesta Knitting Mill.....	Elm and Blount streets.....	
15,692	Church of the Blessed Sacrament.....	Atkins and Oscar streets.....	
15,694	Francesco Batastini.....	Atwells avenue.....	
15,696	Alfred Ogden.....	Eaton street and Douglas avenue.	
15,697	Patrick Morony.....	Westminster street.....	
15,698	St. Adalbert Church.....	Ridge street.....	
15,699	Elmwood Mills.....	Dobell and Mawney streets.....	
15,700	Henry M. Peck.....	Lloyd and Brandywine avenues..	
15,701	Abbie M. Millen.....	Butler avenue and Seekonk st..	
15,702	Vincenzo Bufalo.....	Cedar street.....	
15,703	Edwin D. Chase.....	Bellevue avenue.....	

NOTICE NUMBER.	IN NAME OF	STREETS.	REMARKS.
15,704	Antone Lehman.....	Harris avenue.....	
15,705	Giovanni Petrillo.....	Ledge street.....	
15,709	W. H. Wood, Agent.....	Westminster street.....	
15,710	Adeline L. Chappell.....	Flora street.....	
15,711	Henry Whalen.....	Barre street.....	
15,712	John L. Kehoe.....	Courtland street.....	
15,713	Emma A. Swift.....	Rochambeau avenue.....	
15,714	Timothy J. Herlihy.....	Julian street.....	
15,715	Frango Filela.....	Pocasset avenue.....	
15,716	James Gannon.....	Huntington avenue.....	
15,717	Elwin P. Shaw.....	Congress avenue.....	
15,719	Mrs. Hannah E. Rooks.....	Byfield street.....	
15,720	Mary L. Sargent.....	Branch ave. and Silver Spring st.	
15,721	Walter J. Burns.....	Potters avenue.....	
15,722	Caesar Misch.....	Westminster st.....	
15,724	American Trust Co.....	Ohio avenue.....	
15,725	American Trust Co.....	Indiana avenue.....	
15,726	American Trust Co.....	Indiana avenue.....	
15,728	Elizabeth McDonald.....	Oak and Agnes streets.....	
15,729	James P. Kelly et al.....	Abbott and Bolander streets.....	
15,731	Lydia B. Barnes.....	Laurel Hill avenue.....	
15,733	Giuseppe Caparrelli.....	Union avenue.....	
15,734	Carmine and Filomena Demarco.....	West Exchange and Crout sts.....	
15,735	State of Rhode Island.....	Cranston, Dexter and Parade sts.	
15,737	John L. Morgan.....	Ninth street.....	
15,739	Stephen D. Watson.....	Burnett street.....	
15,740	Ostby & Barton Co.....	Richmond street.....	
15,742	American Trust Co.....	Indiana and Virginia avenues.....	
15,744	Salvatore Catanzaro.....	Swiss street.....	
15,746	Mrs. Mary E. B. Champlin.....	Progress avenue.....	
15,748	Michele Di Vincenzo.....	Pocasset avenue.....	
15,749	Joslin Mfg. Co.....	Melissa street.....	
15,750	Stephen Perkins, Jr., and wife.....	Moy street.....	
15,751	Angelo Pettine.....	Knight street.....	
15,752	American Trust Co.....	Indiana avenue.....	
15,753	American Trust Co.....	Indiana avenue.....	
15,754	American Trust Co.....	Virginia and Alabama avenues.....	
15,755	American Trust Co.....	Valley street.....	
15,756	American Trust Co.....	Jewett street.....	
15,757	American Trust Co.....	Orms street.....	
15,758	American Trust Co.....	Orms street.....	
15,759	Richard Calvert.....	Comstock avenue.....	
15,760	Jacob Atlas.....	Howell street.....	
15,764	Luke Doyle.....	Amherst street.....	
15,766	Michele Graziano.....	Vernon street.....	
15,768	Lucian Gay.....	Porter and Baker streets.....	
15,769	Harriet N. Munroe.....	Governor and Transit streets.....	
15,770	S. & I. Reason.....	Wadsworth street.....	
15,771	Louisa Pike.....	Sterling avenue.....	
15,772	American Trust Co.....	Bath street.....	
15,773	John Fagan.....	Herschel street.....	
15,774	Thomas McCoid.....	Chalkstone avenue.....	
15,777	William Stanley.....	North Main street.....	
15,779	Mary K. Allen.....	Frost street.....	
15,781	Culmidina Rabcic.....	Murray st. and Silver Lake ave.....	Approximate.
15,782	Henry M. Barry.....	Daboll street.....	
15,783	Mabel S. Armington.....	Rhode Island avenue.....	
15,784	P. Cicerone.....	Atwells avenue.....	
15,786	Shmay Kotler.....	Willard avenue.....	
15,788	Thomas Hackett.....	King Philip street.....	
15,791	George S. Baker.....	De Foe place.....	Approximate.
15,792	R. Emil Pohle.....	Longfellow street.....	
15,793	Giuseppe Zambiarano.....	Douglas avenue.....	
15,796	Domenico Pignatelli.....	Charles street.....	
15,798	John Monahan.....	Evergreen street.....	
15,800	Damose Bouchard.....	Broad street.....	
15,802	Domenico Vendettuali.....	America street.....	
15,803	Anne Shein.....	Lippitt street.....	

NOTICE NUMBER.	IN NAME OF	STREETS.	REMARKS.
15,805	Mrs. May R. G. Burdick.	Progress avenue.....	
15,806	Patrick J. Skellington and wife.....	Robin street.....	
15,807	Flavel P. Salisbury.....	Ford street.....	
15,808	Irving C. Potter.....	Park avenue.....	
15,810	Prof. Henry T. Fowler.....	Lloyd avenue.....	
15,811	William B. Hill and wife.....	Calla street.....	Approximate.
15,812	Angelo Cherella.....	Vinton and Tell streets.....	
15,813	Vincenzo Marcello.....	Douglas avenue.....	
15,814	Butler Exchange Co.....	Hay street.....	
15,815	Jesse Orton.....	Whittier avenue.....	
15,817	Algenon T. Card.....	Somerset street.....	
15,820	Bessie M. Binkhorn.....	Public street.....	
15,821	Michele Piano.....	Veto street.....	
15,822	Pasquale Villella.....	Hawkins street.....	
15,824	Antonio Castronuovo.....	Admiral street.....	
15,825	Raffaello Coppola.....	Hawkins street.....	
15,826	Patrick J. Davey.....	Robin street.....	
15,827	Peter J. Skiffington.....	Robin street.....	
15,828	John McLaren.....	Smith street and Oakland ave.....	
15,829	Thomas H. Cannon.....	Arch street.....	
15,831	George L. Cooke, Trustee.....	Westfield street.....	
15,832	Asa W. Vreeland.....	Corinth street.....	Approximate.
15,833	Charles Battle.....	Dora street.....	
15,835	John Casey.....	Chalkstone avenue.....	
15,839	Nicola Ricci.....	Hawkins street.....	
15,840	Albert Goldberg.....	Orma street.....	
15,841	Carmine Bruno and wife.....	Ascham street.....	
15,842	Joy Steamship Co.....	South Water street.....	
15,843	Vincenzo Saccio.....	Gesler street.....	
15,848	Chas. H. Young and wife.....	Clarence street.....	
15,850	Lewis J. Pierce.....	Burnett street.....	
15,851	John Devlin.....	Eddy street.....	
15,852	Frank J. Sullivan.....	Westminster street.....	
15,854	Eugene Gauch.....	De Soto street.....	
15,859	F. A. Cranston.....	South Water street.....	
15,862	Thomas and C. E. Walch.....	Lowell avenue.....	
15,863	Joseph Barsalon and wife.....	Atwells avenue.....	
15,866	Francis Mitchell.....	Camp and Abbott streets.....	
15,867	Lizzie Masso et al.....	Hillhurst avenue.....	
15,868	Gustaf R. Carlson and wife.....	Gordon avenue.....	
15,870	Atlantic Mills.....	Manton avenue.....	
15,871	John A. Gledhill.....	Abbott street.....	
15,872	George Reader.....	Abbott street.....	
15,873	Patrick Fitzmaurice and wife.....	Abbott street.....	
15,875	Antonio Russo.....	Arthur avenue.....	
15,876	Mardiros H. Kimatian.....	Douglas avenue.....	
15,877	Raffaello Labello and wife.....	Swiss street.....	
15,878	Andrew Marshall.....	Felix street.....	
15,880	Thomas Tully.....	Atwells avenue.....	
15,881	Horace Fletcher.....	Grover street.....	
15,882	R. L. Palmer.....	Moore street.....	
15,885	Thomas J. Hamilton.....	Judith and Magnolia streets.....	
15,891	Emeretta B. Lewis.....	Progress avenue.....	
15,892	Edwin P. Anthony.....	Angell street.....	
15,893	Alfred Hanson.....	Atwells avenue.....	
15,894	Maria L. Wehoskey.....	Washington avenue.....	
15,895	Heirs of John B. Brown.....	Westminster and Barton streets.....	
15,898	John H. Connor.....	Atwells avenue.....	
15,900	American Trust Co.....	Babcock street.....	Approximate.
15,901	American Trust Co.....	Bernard street.....	Approximate.
15,902	Wm. A. Sprague.....	Cranston and Harrison streets.....	
15,903	John Benell.....	Bourne street and Atwells ave.....	
15,904	Hugh Moran.....	Aurora and Rill streets.....	
15,906	Patrick Conley.....	Branch ave. and Silver Spring st.....	
15,907	Albert L. Cole.....	Dora street.....	
15,910	C. A. Wells.....	Washington and Clemence streets.....	
15,912	Patrick Murphy and wife.....	Rancroft street.....	
15,913	Wm. H. Covell.....	Hendrick and Pemberton streets and Pomona avenue.....	

NOTICE NUMBER.	IN NAME OF	STREETS.	REMARKS.
15,914	Kate Foley.....	King Philip street.....	
15,915	W. H. Marshall.....	Wallace street.....	
15,917	Charles Voelker.....	Dora street.....	
15,920	Catherine Condon.....	Doyle avenue.....	
15,922	Henry Pearce.....	Dorrance and Clifford streets..	
15,923	E. H. McDonald.....	Bel Air avenue.....	
15,925	James Madden.....	Julian street.....	
15,926	Martha Whitehead.....	Sterling avenue.....	
15,927	Seth Hunt, Jr., Heirs.....	Franklin street.....	
15,928	Salvatore Gliardi.....	Gesler street.....	
15,930	Richard C. Farrell.....	Friendship st. and Beacon ave.	
15,931	Antonio Maio.....	Federal street and Arthur avenue	
15,932	Bridget Kelly.....	Clarence and Whitehall streets	
15,933	James F. Clary.....	Valley and Tippecanoe streets....	
15,934	American Ship Windlass Co.....	East River and Waterman streets	
15,935	Barney Toman.....	Chalkstone and Academy avenues	
15,936	Felomene Cambio.....	Africa street.....	
15,937	Julius Herzog.....	Terrace avenue.....	
15,938	Prov. Telephone Co.....	Angell street.....	
15,939	B. A. Smith.....	Viola street.....	
15,942	Frank C. Hanson.....	Early street.....	
15,943	Mrs. Mary E. T. Faunce.....	Dean street.....	
15,944	Levi M. Kelley.....	Frankfort and Tyler streets.....	
15,945	Wm. M. Harris.....	Concord street.....	
15,947	G. H. Lufkin.....	Bassett street.....	
15,950	Napoleon Paquin.....	Whitehall street.....	
15,951	American Trust Co.....	Indiana avenue.....	
15,952	American Trust Co.....	Washington avenue.....	
15,953	William E. Higgins.....	Washington avenue.....	
15,954	J. Lipshitz.....	Willard avenue.....	
15,955	Hannah A. Birch.....	Dunford street.....	
15,956	John H. Campbell.....	Moore street.....	
15,959	R. H. Deming Est., J. Her- bert Foster, Adm'r.....	Olney street and Morris avenue.	
15,963	Robert McGhee.....	Elmdale avenue.....	
15,969	F. W. Deverell.....	Suffolk street.....	
15,970	Herbert E. Connelly and wife.....	Adelaide avenue.....	
15,971	J. Samuels & Bro., Lessee.....	Lester and D streets.....	
15,972	Mrs. S. W. Kilvert.....	Cushing street.....	
15,973	Charles C. Cushman.....	Bellevue avenue.....	
15,975	Pocasset Combining Co.....	Dike street.....	
15,977	Edwin A. Briggs.....	Eddy and Chapman streets.....	
15,978	Benny and Harry Abbidon.....	Ashburton street.....	
15,979	William Fisher.....	North Davis street.....	
15,982	A. P. Fossner.....	Linwood avenue.....	
15,983	Patience Snow Estate.....	Valley street.....	
15,984	American Trust Co.....	Washington avenue.....	
15,985	American Trust Co.....	Indiana avenue.....	
15,986	W. E. Waterman and wife.....	Dunford street.....	
15,987	N. R. Spencer.....	Laura street.....	
15,989	Giovanni Clavio.....	Arthur avenue.....	
15,990	F. B. Healy.....	Dora street.....	
15,994	John Creamer.....	Willard avenue.....	
15,997	Joseph J. and John J. Kelly.....	Wendell street.....	
15,998	John F. and Arthur F. Hamill.....	Turner street.....	
16,000	Lucy A. Spencer.....	Barrows street.....	
16,001	Giuseppe Catanzario.....	Tell street.....	
16,002	Nicola Rufrano.....	America and Africa streets.....	
16,004	John P. Smith.....	Lester street.....	
16,005	John P. Smith.....	Lester street.....	
16,006	Henrietta Williams.....	Lincoln avenue.....	
16,007	James A. Potter & Co.....	Crary street.....	Approximate.
16,008	M. P. McLaughlin.....	Justice street and Oakland ave.	
16,009	G. L. Gendreau.....	Katharine street.....	Approximate.
16,010	G. L. Gendreau.....	Rodgers court.....	Approximate.
16,020	Maria S. Briggs.....	Cranston street.....	

NOTICE NUMBER.	IN NAME OF	STREETS.	REMARKS.
16,021	R. I. Briggs.....	Anthony avenue.....	
16,022	Gaetano Petrosinelli and Vincenzo Rossi.....	Atwells avenue.....	
16,023	Joseph J. Nugent.....	Plain street.....	
16,024	E. H. Farnum.....	Chalkstone avenue.....	
16,025	Maria L. Wehoskey.....	Washington avenue.....	
16,027	American Trust Co.....	Washington avenue.....	
16,028	E. A. Carter.....	Stillwater ave. and Falmouth st..	
16,029	E. A. Pierce.....	South Water street.....	
16,032	Fannie L. Steere.....	Plainfield st. and Webster ave.....	
16,033	Teresa F. O'Donnell.....	Plainfield street.....	
16,034	Peter Erickson.....	Rissell street.....	
16,035	James Southwell.....	Wallace street.....	
16,038	John Harrington.....	Herschel street.....	Approximate.
16,039	Albert C. Manchester.....	Niagara street.....	
16,040	Robert McDonough.....	Kelley street.....	
16,043	Aniello Matarese.....	Swiss street.....	
16,044	American Emery Wheel Works.....	East River and Pitman streets...	
16,045	Irons and Russell.....	Clifford and Chestnut streets...	
16,046	American Trust Co.....	Indiana avenue.....	
16,047	American Trust Co.....	Indiana avenue.....	
16,048	Guisepppe Palmieri.....	Charles street.....	
16,051	Frank P. Ventrone.....	Atwells avenue.....	
16,054	Saul M. Cohen.....	North Davis street.....	
16,055	C. F. Clapp.....	Waverly street.....	
16,056	Francis T. Delahunt and wife.....	Manton avenue.....	
16,058	Mrs. Catherine Sullivan.....	Ives street.....	
16,060	John J. McCaffrey.....	Mitchell street.....	
16,062	Francis Flood and wife.....	Grosvenor avenue.....	
16,071	V. N. Famigletti.....	Charles street.....	
16,072	Joseph Mayo and wife.....	Atwells avenue.....	
16,074	Jeremiah Goedchild.....	Hamilton street.....	
16,079	Angelo Paulino.....	Tell street.....	
16,082	Harry Handy.....	Mercy, Sibyl, and Simmons sts...	Approximate.
16,083	Edward J. Walsh and wife.....	Woodbine street.....	
16,084	Edward J. Walsh and wife.....	Violet street.....	
16,087	Harlan A. Page.....	Wallace street.....	
16,088	Patrick Gilligan.....	Sherburne street.....	Approximate.
16,090	Axel Anderson.....	Borden street.....	
16,091	Ellen Clark.....	Tenth street.....	
16,093	The United Supply Co.....	Gordon avenue and Baxter street.	
16,094	Antonio Bova.....	Ring street.....	
16,096	M. H. Potter.....	Gilmore street.....	
16,098	Daniel W. Granderson.....	Rodman street.....	
16,101	American Trust Co.....	Massachusetts avenue.....	
16,102	American Trust Co.....	Ohio avenue.....	
16,103	E. A. Smith.....	University avenue.....	
16,104	Richard Saunders Heirs.....	Deborah street.....	
16,106	John P. Smith.....	Eddy street.....	
16,107	Heirs of H. N. Lapham.....	Westminster and Mathewson sts.	
16,110	George H. Jack.....	Harvest street.....	
16,111	Angelo Carulo.....	Charles street.....	
16,112	Waterman Land Co.....	Dyer street.....	
16,113	Patrick Giblin and wife.....	Magnolia street.....	
16,114	Stephen B. Brown.....	Burnett street.....	
16,116	Patrick Darcy.....	Union avenue.....	
16,119	Daniel P. Caboon and wife.....	Gordon avenue.....	
16,120	Godfred L. Gendreau.....	Rogers court.....	Approximate.
16,121	Benjamin Hyman.....	Hewes street.....	Approximate.
16,122	Horace Remington.....	Adelaide avenue and Hamilton st.	
16,123	Horace Remington.....	Adelaide avenue.....	
16,124	Carl Louis Sontag.....	Grove street.....	
16,127	Louis Ross.....	Swiss street.....	
16,128	John F. Gately.....	Governor street.....	
16,129	American Trust Co.....	Hamilton street.....	
16,130	American Trust Co.....	California avenue.....	
16,131	American Trust Co.....	Massachusetts avenue.....	

NOTICE NUMBER.	IN NAME OF	STREETS.	REMARKS.
16,132	Susan E. Brown.....	Burnett street.....	
16,133	Louis Linder.....	Doyle avenue..	
16,134	Michael Greeley.....	Charles street.....	
16,135	May R. G. Burdick.....	Priscilla avenue.....	

The following line was defined by special order:

Borden street.

RECAPITULATION.

Building notices received during the year.....	508
Building notices relating to repairs, etc., and not requiring street lines	168
Lines marked for building notices.....	382
Special line defined	1
Total lines defined	383

As in past years information in regard to street lines has been furnished to the water department as required.

Information relative to street lines, including measurements and levels, has been furnished for the Inspector of Buildings upon his request.

Surveys and maps were made of the following streets during the year :

NAME OF STREETS.	BETWEEN WHAT POINTS.	LENGTHS IN FEET.
Algonquin	Holmes and Crescent streets	656.78
Alumni avenue	Weymouth street and Arlington avenue	231.70
Bell	Eiswald street and easterly line of Barre street.	100.00
Bellevue avenue	Bucklin and Dexter streets	187.00
Cole avenue	Irving and Lloyd avenues	399.93
Croyland road	Oxford and Sayles streets	358.92
Elton	Taber and Elmgrove avenues	400.00
Fairview	Carleton and Pemberton streets	497.41
Moulton	Westminster and Bewet streets	277.37
New Street	Northup and Smithfield avenues	1,322.96
Ninth	North Main street and Highland avenue	542.33
Rosedale	Messer and Ellery streets	785.27
Sayles	Gordon and Prairie avenues	398.57
Silver Spring	Ashton street and Northup avenue	1,157.61
Troop lane	Walling and Charles streets	186.68
Wayland avenue	Irving and President avenues	802.19
Weymouth	Lloyd avenue and Olney street	999.42
		7,981.18

or 1.512 miles.

Streets have been laid out or received during the year under various forms as follows:

Under the usual form, by committee appointed by the Board of Aldermen:

NAME OF STREETS.	BETWEEN WHAT POINTS.	LENGTHS IN FEET.
Algonquin.....	Holmes and Crescent streets.....	656.78
Barre.....	Bell and Ridge streets.....	2,086.21
Bell.....	Elswald street and easterly line of Barre street	100.00
Croyland road.....	Oxford and Sayles streets.....	358.92
Fairview.....	Carleton and Pemberton streets.....	497.41
New Street.....	Northup and Smithfield avenues.....	1,322.96
Sayles.....	Gordon and Prairie avenues.....	398.57
		5,420.85

or 1.027 miles.

Streets conveyed by deed for highway purposes and ordered repaired:

NAME OF STREETS.	BETWEEN WHAT POINTS.	LENGTHS IN FEET.
Alumni avenue.....	Weymouth street and Arlington avenue.....	231.70
Elton.....	Taber and Elmgrove avenues.....	400.00
Hilton.....	Willard avenue and Bogman street.....	496.29
Ninth..	North Main street and Highland avenue.....	542.33
Silver Spring.....	Ashton street and Northup avenue.....	1,157.61
Troop lane.....	Walling and Charles streets.....	186.68
Weymouth.....	Lloyd avenue and Olney street.....	909.42
		4,014.03

or 0.760 miles.

Street established as public highway on petition of abutting owners:

NAME OF STREET.	BETWEEN WHAT POINTS.	LENGTH IN FEET.
Rosedale	Messer and Ellery streets	785.27

or 0.149 miles.

Street declared a public highway by reason of twenty years use:

NAME OF STREET.	BETWEEN WHAT POINTS.	LENGTH IN FEET.
Moulton	Westminster and Bewet streets	277.37

or 0.053 miles.

Total length of streets laid out and received in 1903, 10,497.52 feet or 1.988 miles.

During the year the following street was declared useless and abandoned for highway purposes:

Arlington avenue, from Morris avenue to Arlington avenue proper, 443.47 feet, or 0.084 miles.

The net increase during the year 1903 is 10,054.05 feet or 1.904 miles, making for the present length of received streets 232.13 miles.

The length of streets platted, but not yet received, is now approximately 144.80 miles.

During the year work has been performed for the Department of Public Buildings as follows:

Admiral street school, measurement of concreting.

Branch avenue fire station, measurement of concreting.

Central fire station, levels for grading yard, measurement of concreting.
Charles street school, measurement of concreting.
Danforth lot, North Main street, measurement of concreting.
Mount Pleasant avenue fire station, cross-sections for architect, lines and levels for contractor.

PUBLIC PARKS.

The following work was performed for the department of parks:

Map of Davis Park made for Superintendent.
Map and profile of Blackstone boulevard for Landscape Engineer.
Survey and map of contours of land purchased for addition to Blackstone Park (about 440,000 square feet).
Lines and levels for construction of Angell street extension from Rhode Island avenue to Gower street.
Lines and levels for change of grade of southerly portion of Gower street.
Lines and levels for grading portion of Roger Williams Park near Miller avenue.
Lines and levels for new gates at Elmwood avenue entrance to Roger Williams Park.
Lines for new path at Hopkins Park.
Lines for athletic grounds at Davis Park.
Cross-sections of portion of Blackstone Park adjacent to Angell and Paterson streets.
Cross-sections of addition to Tockwotton Park.

The total area of public parks in the city is 570. acres.

The number of parks is nineteen.

NORTH BURIAL GROUND.

Most of the work of the department for the past year has been in connection with the new receiving tomb, the lines and levels for which were furnished to the contractor. Marks for grading and finishing the ground adjacent were also given.

Surveys and division of individual burial lots were made as desired by the Superintendent.

Fifty-nine deeds for lots sold, fifteen deeds for conveyance to city in trust and eighty-eight certificates of perpetual care were drawn up.

The area of the city remains the same as last year, being 18.29 square miles.

The work relating to these departments has been in charge of Herbert E. Sherman, Assistant Engineer.

CITY PROPERTY.

Surveys or plans have been made as follows:

Admiral street school estate, plan.
 Aldridge farm, north line, survey.
 Blackstone Park, survey and two plans.
 Broadway injury case, near Marshall street, survey and plan.
 Butler Hospital sewer right, two maps for record.
 Chalkstone avenue police station, plan.
 Cooke, Joseph J., farm near Roger Williams Park, two plans.
 Dexter Donation thatch, near Red Bridge, plan.
 Dexter Training Ground, partial survey and plan.
 Doyle avenue lots, lines for fencing.
 Eddy Park, corner Rosedale and Ellery streets, plan.
 Elmgrove avenue extension, plan.
 Field's Point property, approximate plan.
 Franklin Park, corner Atwells avenue and Bradford street, survey and plan.
 Gano street lot, at Washington Bridge, plan for Superintendent of Public Buildings.
 Glen road, between Pontiac avenue and Aldridge farm, survey and plan.
 Harvest street, proposed school estate, plan.
 Manual Training High School, plan.
 Neutaconkanut Park, survey and three plans.
 Peace street school estate, plan for office use.
 Providence river, harbor line on east side, between Crawford street and India street, survey and plan.
 Randall Farm, Pawtuxet, approximate plan.
 Red Bridge estate, plan for Committee on City Property.
 Roger Williams Park, proposed exchange with N. Y., N. H. & H. R. R. Co., two plans.
 Smith street gravel lots, lines for Highway Department.
 Summer street primary school estate, plan.
 Tockwotton Park, two plans.
 Vineyard street school estate, plan.
 Williams, James, farm near Roger Williams Park, plan.

Stone bounds have been placed as follows:

Aldridge Farm	1
Blackstone Park	6
Dexter Training Ground	2
Glen Road, Pettaconset	5
Neutaconkanut Park	19
Total	33

Descriptions for deeds, agreements and other instruments have been furnished or examined as follows:

Alumni avenue, between Arlington avenue and Weymouth street, deed.
Bellevue avenue, between Dexter street and Bucklin street, deed
Blackstone Park, north of Irving avenue, seven deeds.
Borden street extension, at corner of Beacon avenue, deed.
Chatham street, from Branch avenue to land of Silver Spring Bleachery, deed.

Coggeshall and Forsyth streets, at Eagle Park, deed.
Eddy Park, corner of Rosedale and Ellery streets, deed.
Elmgrove avenue extension, through land of John Morris, description.
Fairview street, between Carleton and Pemberton streets, deed.
Fifth street, on Randall plat, two deeds.
Grotto avenue, from Irving avenue to Channing avenue, deed.
Highland avenue, adjoining lots Nos. 121 and 122 Randall plat, deed.
Hilton street, from Bogman street to Willard avenue, two deeds.
Humboldt avenue between Wayland and Irving avenues, deed.
Morris avenue, north of Olney street, two petitions for change of grade.

Neutaconkanut Park, Atwood's and Smith's deeds.
Observatory avenue, strip at Hope street, deed.
Oxford plat, streets on, two deeds.
Reservoir avenue, between railroad and Algonquin street, sewer right.
Rush street, adjoining lot No. 1 on Randall plat, deed.
Sixth street, adjoining lot No. 184 on Randall plat, deed.
Steele street, adjoining lots Nos. 29 and 30 on Grant plat, deed.
Waverly street, from Cranston street to Union avenue, deed.
Weymouth street, from Lloyd avenue to Olney street, and Alumni avenue, from Arlington avenue to Weymouth street, agreement and bond.

Records were examined or copied as follows:

Beacon avenue school estate, near Broad street, for office use.
Cemetery street lots, corner of Collyer street, for Commissioner of Public Works.

Davis, George W., park, Neutaconkanut Hill, for office use.
Dixon street from Elmwood avenue to Roger Williams Park, preliminary to deeding.

Grand View street, between Camp street and Knowles street, for deeding.

Hanover street, from Bucklin street to Dexter street, for reception.
Huron street, from Regent street to Wisdom avenue, for deeding.
Mallett street, between Bates street and Camp street, for deeding.
Nebraska street, between Eddy street and Rugby street, for deeding.
Rosedale street, between Messer and Ellery streets for reception.
Sibley street, from Algonquin street to Crescent street, for deeding.
Silver Spring Company, Charles street, for Commissioner of Public Works.

West Exchange street lots, for Assessors of Taxes.

Records were examined and copied relating to the several grants to the railroad companies in Allens avenue and India street.

A list of the 533 estates owned by the City of Providence, with a description of the same, was furnished for the City Auditor's report.

Surveys were completed on the site of the new State Armory on Cranston street.

Maps of the harbor, showing the several wharves in Providence and Seekonk rivers, were furnished for the Chamber of Commerce.

Maps and records were copied for the Law Department in connection with the Comstock case on Canal street.

Maps and other information were furnished for the proposed widening of Hope street.

Twenty maps illustrating the growth of the North Burial Ground were corrected for the Record Commissioners.

Maps were inserted in the deed books whenever requested by the Recorder of Deeds.

The new Post Office site on Exchange place was located on the ground by prominent marks, and several maps showing the same were furnished to interested parties.

Copies of all records relating to the Rhode Island Hospital were furnished for the Law Department. Other assistance was rendered this department whenever requested.

The School Committee was furnished with duplicate diagrams of the sittings of the Committee in the Classical High School.

The work relating to this department has been in charge of William G. Brennen, Assistant Engineer.

BRIDGES AND HARBOR.

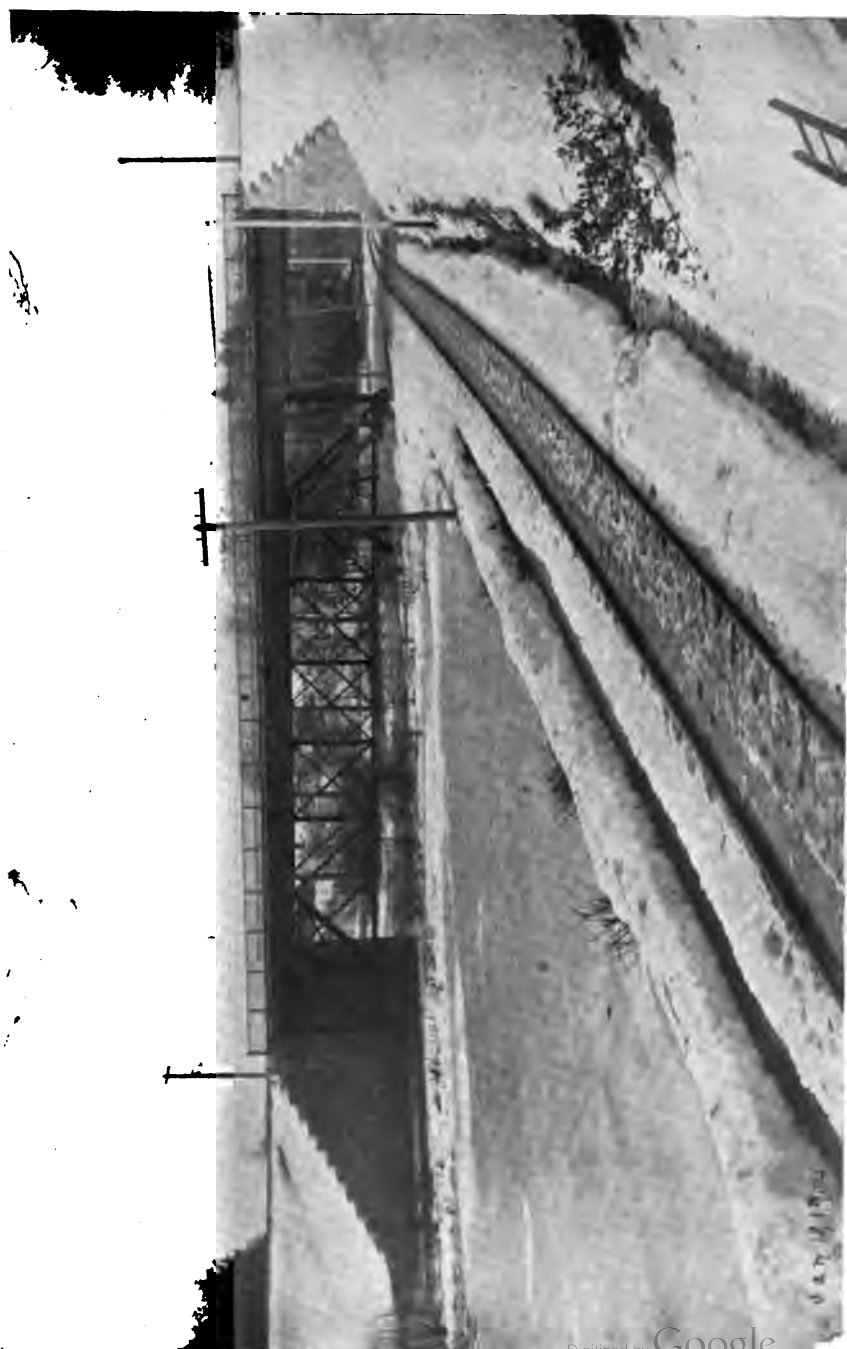
BRIDGES.

The more important work of this department during the year, in the preparation of plans, specifications, estimates and engineering supervision of work under construction, is as follows:

MERINO BRIDGE.

This bridge was completed May 22, 1903, but the earth filling for the approaches was not finished until sometime in the following December, so that the bridge was not available for travel until the later date. As the greater part of the material for the heavy embankment on the south side had to be taken from the north side of river, it was necessary to complete the bridge first in order that the material could be carted across it. This made it impossible to carry on the work of filling at the same time the construction of the bridge was in progress.

The abutments are of heavy granite rubble masonry on Portland cement concrete foundations. The piers are of cut granite on Portland cement concrete foundations. The superstructure consists of one truss span of one hundred and twenty-six feet over the river and one plate girder span of thirty-nine feet over the railroad tracks of the New York, New Haven and Hartford Railroad. The floor of the driveway, which is twenty eight feet between wheel guards, consists of a lower course of three-inch yellow pine plank, and a wearing course of two-inch spruce, laid crosswise. There are two sidewalks, each six feet wide, covered with two-inch yellow pine plank laid crosswise with one-half inch open joints. The superstructure is of steel and has



Merino Bridge, looking northerly.

been designed to carry safely, with a liberal margin of strength, a distributed load of one hundred pounds per square foot on the driveway and eighty pounds on the sidewalk, and for a twenty ton steam road roller in any position on the driveway floor.

During the progress of the work the material and workmanship of both the superstructure and substructure have been subject to thorough inspection.

It may be of general interest to note here, that in order to secure reasonably prompt delivery of the steel for the superstructure, portions were ordered in England, Scotland and Germany by the Boston Bridge Works, who were the contractors for the superstructure.

ADELAIDE AVENUE BRIDGE.

Early in the year an agreement was made between the city and the New York, New Haven and Hartford Railroad, by the terms of which the city was to furnish the abutments, and the railroad company the bridge superstructure of steel. In accordance with this agreement the city has built a new abutment on the easterly side of the railroad tracks, and has changed the upper portion of the westerly abutment, which was built by the city at the time the sewer was constructed, to receive the bridging. The new abutment is of granite rubble laid in Portland cement mortar with Portland cement concrete foundation. The superstructure has been built of steel with a wooden floor, by the railroad company, and was completed late in the year. As soon as the approaches are graded the bridge can be opened for public travel.

POST OFFICE BRIDGE.

The construction of this bridge, which covers the area over the Providence river between the Exchange and Burn-

side bridges, is made necessary in order to give open street areas on all sides of the new Post Office. Plans, estimates and specifications have been prepared for both the superstructure and substructure. The steel work has not yet been contracted for. The work on the substructure is now in progress and is being done under the supervision of this department. The character of the work will be similar to that of Weybosset bridge.

Preliminary plans and estimates have been made for a new masonry arch to replace the old wooden bridge on Branch avenue over the Moshassuck river.

The estimate for the proposed viaduct, starting from Weybosset bridge and gradually rising over the open spaces at Crawford street bridge, then turning and passing over South Water street and through Crawford street and over South Main street, and thence through private property to Benefit street, has been revised to compare with changes in prices of material.

Revised plans and estimates have been made for retaining walls on the Barre street extension.

In addition to the foregoing work a large amount of work has been done, including preparation of plans and estimates, inspection of material and supervision of repairs made on various bridges.

Examinations of the various bridges have been made during the year.

HARBOR.

Material has been dredged as follows:

LOCATIONS.	Amount in cubic yards.	Price per cubic yard.	Value.
Channel between Crawford street and Point street bridges.....	12,641.7	22 c.	\$2,781 17
Opposite Elm street and wharf of Eastern Coal Co.....	1,142.8	22 c.	251 42
Totals.....	13,784.5		\$3,032 59

In connection with the above work various soundings have been taken, range stakes and tide gauges set and estimates prepared upon which payments to the contractor have been made.

The self-registering tide gauge, located at Point street bridge, has been in continuous operation during the year, and has received the necessary attention. This makes eighteen years of continuous record.

The work relating to this department has been in charge of William D. Bullock, Assistant Engineer.

There are in the office 15,224 indexed plans, 251 of which have been classified and indexed during the past year.

The average number employed during the past year was forty-two.

OTIS F. CLAPP,
City Engineer.



FRANK FULLER OLNEY.
(Deceased)
Park Commissioner.
Late President of the Board.

1904.]

CITY DOCUMENT.

[No. 11.]

THIRTEENTH ANNUAL REPORT
OF THE
PARK COMMISSIONERS,
FOR THE YEAR
1903.

[Presented April 4, 1904.]



The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
63 Washington Street.
1904.

THE BOARD OF PARK COMMISSIONERS.

FENNER H. PECKHAM, *President.*

R. H. I. GODDARD,

WILLIAM A. WALTON.

JOSEPH D. FITTS, *Superintendent of Parks and Secretary.*

Office, Roger Williams Park.

Telephone, ——— Broad.



FENNER H. PECKHAM, M. D.
Park Commissioner.
President of the Board.

REPORT.

OFFICE OF THE PARK COMMISSIONERS,
CITY HALL, January 29, 1904.

TO THE HONORABLE THE MAYOR AND CITY COUNCIL:

GENTLEMEN: In compliance with the ordinance requiring an annual report of the condition of the public parks, the following is respectfully submitted:

For the second time within a brief year the Board of Park Commissioners is called upon to mourn the loss of its president. The Hon. Frank Fuller Olney, who had filled that position since the death of Richard H. Deming, died Saturday, October 24, 1903.

As a public official he served with distinction both the State and the City in positions of the highest honor and trust; as president of the Park Commission he was deeply interested in the best development of our park system. His associates of the Board and our citizens in both public and private life have cause to remember his kindly and liberal disposition.

At a meeting of the Board of Park Commissioners held November 2, 1903, the following preamble and resolutions were passed:

WHEREAS, The Board of Park Commissioners learn with feelings of the deepest sorrow of the death of Frank Fuller Olney, a member of this board since Jan. 7, 1895, and its president since Jan. 10, 1903, and

WHEREAS, By the death of Frank Fuller Olney this board has lost a valued member and the City of Providence an earnest worker, who has faithfully labored for the improvement of the parks of this city, as well as for its highest interests in all other departments. therefore be it

RESOLVED, That we, the members of the Board of Park Commissioners of the City of Providence, do hereby express our heartfelt sorrow and regret at the death of our beloved associate.

RESOLVED, That on the minutes of this meeting be entered the sincere regrets of his associates, with their appreciation of his ability and courtesy as presiding officer of this board and his devotion to the work of the commission, and also that a copy of these resolutions be sent to the family of the deceased president.

FENNER H. PECKHAM,

R. H. I. GODDARD.

JOSEPH D. FITTS, *Secretary*.

It has been our misfortune also to lose the secretary of the Park Commissioners, the genial and obliging Major Frank H. Harcourt, whose death occurred in July of the past year. The Commissioners wish to testify to his long and faithful service as secretary of the Board.

Mr. William A. Walton was unanimously elected by the City Council at its first meeting in January, 1904, to fill the unexpired term of the late Commissioner Olney. At a meeting of the full Board of Park Commissioners, held on January 9, 1904, Fenner H. Peckham was unanimously elected president, and Joseph D. Fitts, secretary.

Provision was made in the annual appropriation bill for a continuance of the popular band concerts at Roger Williams Park during the season of 1904. This action of the City Council will allow the Commissioners to make favorable contracts. The concerts during the year were attended by about the usual number of people during the early part of the season, but owing to the cold and wet weather in August the attendance was not up to the average. The concerts given in several of the smaller parks in different sections of the city early in the season were largely attended, and great interest was manifested in them by citizens residing in those localities. The Commissioners deem it desirable that some provision should be made by the City Council to continue these concerts the coming season.



ROBERT H. I. GODDARD.
Park Commissioner.

The bronze gates at the Elmwood Avenue entrance in memory of Miss Anna H. Man have been erected, over seven tons of bronze metal being used in their construction. These gates are massive, artistic and imposing in their appearance, and are a fitting tribute to the memory of the late Miss Man, whose generous gift to the city, in trust, the income thereof to be expended in the care and improvement of this park, will never be forgotten. On the granite posts on each side of the main entrance are to be placed bronze tablets; on one, the inscription, "The Anna Hawke Man Memorial, 1903"; on the other, a medallion head of Miss Man in low relief, taken from an oil painting in the possession of Mrs. Josephine Allen. There seems to be a wrong impression among some of the people of the city in regard to the spelling of Miss Man's name, but as the lettering on the tablet corresponds with her own signature, there seems to be no doubt as to which was the correct way. The full middle name was obtained from Mrs. Allen, who kindly consented to search among Miss Man's papers for it, and who very courteously permitted the oil painting to be photographed for the purpose of obtaining a true likeness for use on the tablet.

The fishing in the lakes, which were opened to the public for this purpose on the first of July last, has proved very attractive and afforded much pleasure to hundreds of our citizens without injury to the lakes in any respect, and, incidentally, has yielded quite a revenue, which is used in beautifying and improving the park.

Your Commissioners would state that there is need of more iced water drinking fountains for the accommodation of the thousands of people who visit Roger Williams Park in the summer season, and that at least four more of these fountains should be erected.

The Park Museum still attracts a large number of people

seeking information from its library and numerous exhibits. Provision has recently been made for the cases so long needed for the exhibition and preservation of its varied and valuable collections. That popular interest in the Museum does not abate is indicated also by an attendance equal, so far as can be ascertained, to any previous year, namely, about seventy-five thousand persons. Fifty-one schools visited the Museum, and there were more than three hundred applications for specific assistance in matters mineralogical or zoological, as appears by the daily records. Recently there have been many calls for catalogues. With the limited and unsystematic exhibitions of past years they have not been possible, but with the better finished conditions about to be established a publication of some sort would be of great advantage to the public, and if a small charge was made it would eventually pay for itself. Indeed, if funds are available, a small quarterly magazine may be issued devoted to a consideration of the Museum, its advantages and requirements, with Rhode Island natural science matters in general. The distribution of such a publication to similar institutions at home and abroad would bring many superior returns. With the arrival of new furniture, a system of checking should be established whereby food, cigars, skates, canes, umbrellas and packages may be in the future excluded from the exhibition rooms. Under the authority of a joint resolution passed by the City Council and approved April 7, 1903, the contents of the Park Museum were insured against loss by fire to the amount of \$20,000.

The Arbor Day exercises of the year were more fully attended than ever before, the weather conditions, in contrast with the year preceding, being perfect. The English, Classical, Hope Street, and Manual Training High Schools holding their exercises in the morning, the Grammar Schools uniting and planting one tree in the afternoon. It is the intention of the Commissioners to have suitable labels

placed on the trees, giving the English and botanical names and also where the varieties are indigenous. Your Commissioners would recommend the planting of trees and shrubs as may be necessary for properly improving and embellishing the park. In order that this work may be done in an intelligent manner, it is the intention of your Commissioners to employ some landscape architect of well-known ability and reputation to design a planting plan; the work can then be carried on from year to year by the purchase of trees and shrubs, as the funds in the hands of the Commissioners will permit, or raised in the nursery connected with the park. Several thousand shrubs and a few hundred trees are now growing in the nursery, nearly all of the shrubs having been raised from cuttings during the last two or three years.

On July 4th the usual balloon ascension took place from the plateau north of the Casino and was one of the most successful ascensions ever made here.

The receipts of the year have increased quite largely over those of the preceding year. One of the largest sources of this increase was the returns from the fishing privilege. Ten new boats and twelve skiffs have been added to the fleet.

The flock of Southdown sheep have been kept up to the usual high standard. Early in the season, owing to shortness of feed and a lack of room, quite a number of the flock were sold. These were largely the culls of the flock.

Conduits have been laid and connections made for placing underground all the electric wires running to the buildings. The various buildings have received attention from time to time in the way of repairs and refurnishing, as was necessary to keep them up to the usual standard.

The concrete walks near the Casino, which had been repaired several times, and which were in a very poor condition, were relaid and put in first-class order.

The waiting room near the Broad Street entrance, which

was donated to the Park by the Rhode Island Company, and which has not been in use for several years, should be moved to the termination of the electric car line on Miller Avenue. During the summer and also in the skating season several lines of cars run on this avenue up to the park boundary. It is thought that fully one-third of the people who visit the park in the seasons when the cars are running come by this avenue.

The high bank on the northerly side of Miller Avenue has been sloped, covered with loam, graded and seeded, nearly its full length. In doing this work a bed of gravel of the best quality for repairing the drives was found and thousands of loads have been utilized for this purpose. The large tract of land lying northerly of Park Avenue and adjoining the park on the southeast has been platted into house lots. The opening up of this land for building has made necessary the opening of four new entrances into the park, as provided for in the deed from Edmund P. Taft to the City of Providence.

As was mentioned in the report of last year, the menagerie is still in a very depleted condition. Baby Roger, who had grown to be a pretty large baby during his ten years of life at the park, was sold early in the year, as he had shown symptoms of developing viciousness. The money thus obtained was deposited in the city treasury for the purchase of a small female elephant as his successor.

The matter of widening Elmwood Avenue from the city line northerly through the park from sixty to eighty feet in width, is now being agitated, the City Council having lately appointed a joint committee to investigate the subject. This will be a much-needed improvement, as the passage-way for teams near the entrance to the park is in a very congested condition. The curbing of this portion of Elmwood Avenue is held in abeyance until the question of widening is settled.



WILLIAM A. WALTON.
Park Commissioner.

In 1896 quite a sum was expended on the Field Wood Lot (so called) in building a driveway, grading, etc., at the urgent solicitation of many citizens. This work was quite well advanced when the appropriation for this purpose became exhausted and nothing further has been accomplished in this direction. Your Commissioners very strongly advise a sufficient appropriation to complete the work begun at that time.

The smaller parks of the city have been maintained with the usual care and economy.

At Blackstone Park the roadway continuation of Angell Street through the park property, and Gower Street, at its southerly end, has been improved by grading and macadamizing the roadways and paving the gutters. These improvements make access to the River Road very easy. The view of the Seekonk to be obtained from this road is very fine, but owing to the difficulty experienced in getting there in the past these beautiful views have not been enjoyed as much as they should be.

Within the lines selected as the boundaries of this park are several tracts of land not yet acquired by the city for park purposes. A part of these are situated on Irving Avenue, and are built upon. In these cases the back yards border on the park property and are not always in an attractive condition. The others are scattered through the area intended for the park. Your Commissioners would advise the purchase of these lots before anything in the way of improving the park is done, whenever they can be obtained at a reasonable price.

Plans are now in process of preparation for improving the Blackstone Boulevard Parkway by the planting of trees and shrubs and such grading as may be necessary owing to the laying of rails for the two lines of electric cars authorized by the City Council. It is expected that these plans will be completed in time for the work to commence early

in the coming spring. They are being designed by Olmsted Brothers, Brookline, Mass., landscape architects of national reputation, and have been examined by several citizens interested in the work and fully approved by them.

The wood work of all the buildings and the iron work of the bridge railings and fences at Davis Park have been painted and repairs made to the lavatory building.

At the City Hall Park the concrete walks, which were beginning to show signs of wear, were washed over with a coating of tar and sanded. The usual planting of tulip bulbs was made in November.

At Franklin Park the concrete on the sidewalk of Atwell's Avenue adjoining this park has been relaid.

PLAYGROUNDS.

The large level tract of land in front of the Mansion House at Davis Park was opened for baseball and football games during the season. The large number of young men and boys who have made use of the ground show the popularity of these outdoor games. Owing to the inability of the Commissioners to obtain the other athletic apparatus intended to be placed there, on account of the manufacturers being unable to supply it until late in the fall, when the season for such sports is over, the full complement of apparatus will not be placed in position for use until next spring.

Provision was made by the City Council, in the last annual appropriation bill, for a playground at Tockwotton Park on the strip of land dedicated for park purposes and adjoining the present park area on the east. It is intended by the Commissioners to fit this tract and have it fully equipped with the necessary athletic apparatus early in the spring, so that it may be used during the warm weather of next year. Plans for this work are now in course of preparation.

At Neutaconkanut Hill thirty-two acres of land have been acquired and dedicated by the City Council for park purposes. Adjoining Plainfield Street on the west there is quite a tract of level land admirably suited for the purposes of a playground. This section of the city seems particularly in need of a playground for the children, as the population in the vicinity consists largely of the working class.

During the year, forty-three and one-half acres of land have been added to the park area of the city, making a total of nearly six hundred acres now devoted to park purposes.

Your Commissioners deem it desirable to acquire suitable lands for park purposes in various sections of the city whenever it can be obtained at reasonable prices. Such land can then be developed as future demands appear.

We further recommend as desirable the acquisition of property for park purposes which may lie without and adjoining the boundary of the city, and which is needed for the proper development of present purchases.

METROPOLITAN PARK SYSTEM.

We favor most heartily the scheme of a metropolitan park system on the same lines as has proved so successful near Boston. The land for this purpose should be secured when it can be obtained at a reasonable price, and future improvement made as conditions demand.

RECEIPTS AND EXPENDITURES.

EXPENDITURES.

PUBLIC PARKS, GENERAL ACCOUNT.

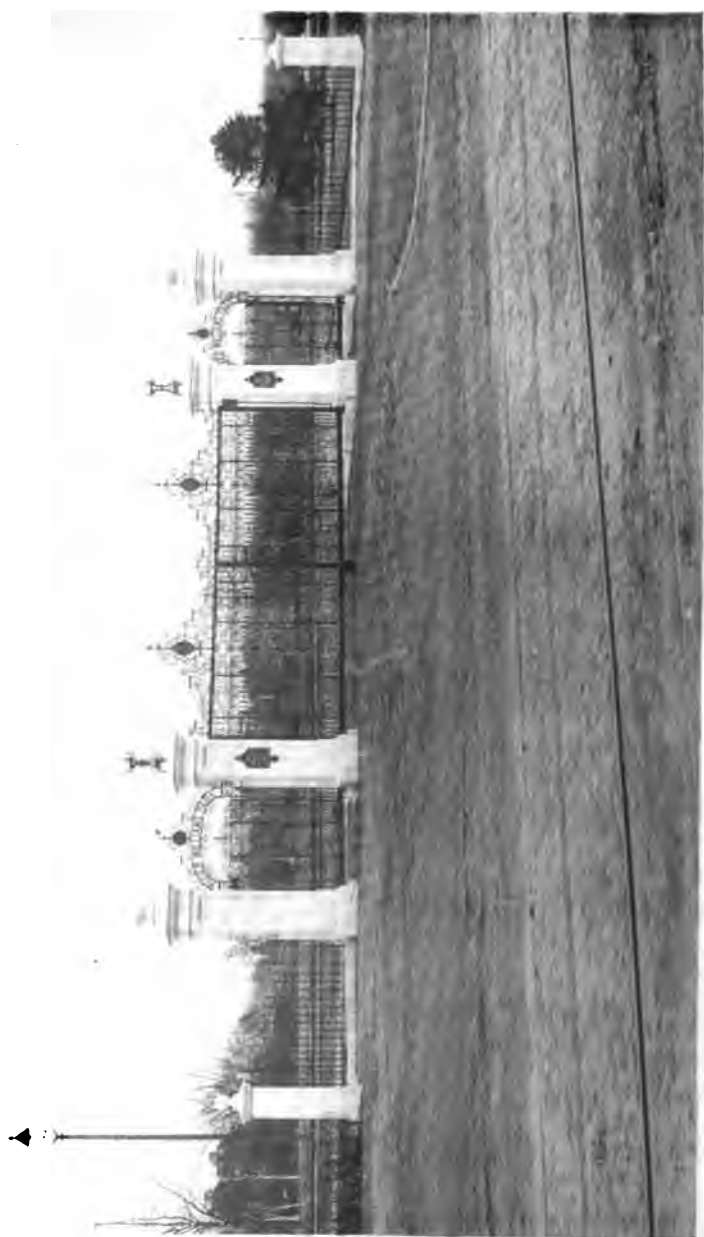
Salary of Superintendent of Parks.....		\$1,798 92
Salary of Clerk of Park Commissioners.....		582 20
Salary of Clerk to Superintendent.....		626 00
Stationery, printing and supplies.....		208 54
Expense of surety bond.....		3 50
Expended on the following parks:		
Davis	\$2,217 24	
City Hall	847 05	
Hayward	589 74	
Tockwotton	328 40	
Dexter Training Field	282 55	
Hopkins	162 78	
Blackstone	128 96	
Abbott	126 73	
Roger Williams Square.....	107 18	
Prospect Terrace	83 43	
Franklin	56 66	
Washington	45 75	
Fenner	14 25	
Columbus	8 00	5,001 72
Total		\$8,220 88

PUBLIC PARKS, ROGER WILLIAMS PARK.

Care and improvement of grounds.....	\$16,254 07
Boats and launches, care and repairs.....	5,278 04
Buildings, repairs and furnishings.....	4,259 94
Menagerie, food for, and care of animals.....	3,641 79
Stable, food for, and care of animals.....	2,733 36
Museum, salary of curator, etc.....	2,571 60
Ponies, pony wagons, care, feed, etc.....	1,893 88
Fuel	1,225 13
Water	1,065 05
Horses, wagons, harnesses, etc.....	819 70
Insurance, Museum Building, City Council Resolution No. 117, series of 1903.....	300 00
Total	\$40,042 56

DAVIS PARK IMPROVEMENT LOAN ACCOUNT.

Improvement of land, City Council Resolution No. 400, series of 1897.....	\$135 85
Playground, City Council Resolution No. 211, series of 1903	300 38
Total	\$436 23



ANNA HAWKE MAS MEMORIAL, 1903.

PUBLIC PARKS, ROGER WILLIAMS PARK.

Percentage of receipts from the following:

Bicycle locks.....	\$21 65	
Weighing machines	43 28	
Carousal	772 38	\$837 31
Use of baby carriages.....		25
Error in pay roll.....		1 50
Sale of skiff		19 95
Use of ice chairs.....		43 75
Rent of land for photograph building.....		50 00
Lawnning Elmwood Avenue		62 20
Sale of skate straps.....		67 70
Labor, sale of material, etc.....		75 35
Articles checked.....		92 85
Sale of wood		95 25
Use of road roller and watering cart.....		101 50
Repairing and sharpening skates.....		125 35
Use of skates.....		188 48
Sale of wool.....		237 60
Use of boats for fishing.....		543 40
Use of steam launches		771 80
Use of pony teams.....		870 45
Sale of birds and animals.....		1,857 29
Use of rowboats.....		2,914 33
Total		\$8,956 31

ANNA H. MAN TRUST FUND.

(Extract from will of Anna H. Man.)

"4. All the rest and residue of my estate of which I shall die seized, possessed or entitled to, both real and personal, I give, devise, and bequeath to said City of Providence to have and to hold forever in trust as a fund, in such manner and form of investment as the said city may choose, and apply the net income thereof to the support and maintenance of Roger Williams Park, now owned by said city, as a public park, mingling said income with other moneys expended upon said park in such manner as to said city shall seem best."

This fund is invested as follows, viz.:

200 shares National Exchange Bank, par value.....	\$10,000 00
58 shares Mechanics National Bank, par value.....	2,900 00
55 shares National Bank of North America, par value..	5,500 00
110 shares Bank of Commerce, par value.....	5,500 00
50 shares American National Bank, par value.....	2,500 00
Lot 61, Assessors' Plat 10, with building, North Main Street, Assessors' valuation	10,440 00
Lot 236, Assessors' Plat 29, Cranston Street, Assessors' valuation	4,564 00
Lot 240, Assessors' Plat 29, Cranston Street, Assessors' valuation	8,507 00

Lot 313, Assessors' Plat 29, Broad Street, Assessors' valuation	\$12,177 00
Wood lot in Town of Norfolk, Mass., Assessors' valuation	120 00
Six 4 per cent. notes, payable on demand.....	137,900 00
Cash	28 08
	<u>\$200,136 08</u>

BLACKSTONE PARK LAND ACCOUNT.

Land	\$40,250 00
Gower street, City Council Resolution No. 412, series of 1902	1,400 00
Building roadway, Angell street, City Council Resolution No. 375, series of 1902.....	800 00
Angell and Gower streets, City Council Resolution No. 325, series of 1903.....	32 25
Total	<u>\$42,482 25</u>

ANNA H. MAN TRUST FUND.

Invested in City of Providence notes.....	\$137,900 00
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ANNA H. MAN TRUST FUND, INCOME.

Care and maintenance of property.....	\$796 66
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RECEIPTS.

ANNA H. MAN TRUST FUND.

National Eagle Bank, final dividend in liquidation.....	\$403 20
National Bank of North America, in reduction of capital stock	5,614 00
National City Bank of New York, for sale of U. S. bonds	129,043 75
Total	<u>\$135,060 95</u>

ANNA H. MAN TRUST FUND, INCOME.

Income from the fund to September 30, 1903.....	\$7,354 66
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PUBLIC PARKS, GENERAL ACCOUNT.

Davis Park:			
Sale of wood.....	\$2 00		
Sale of grass.....	25 00		
Rent of lodge.....	99 96	\$126 96	
Sale of grass, Blackstone Boulevard.....		20 00	
Total		<u>\$146 96</u>	

ROGER WILLIAMS PARK, REVENUE.

Sale of junk.....	\$20 00
Sale of souvenirs.....	29 00
Use of swings.....	121 70
Rent of Casino.....	813 88
Total	<u>\$984 58</u>

DONATIONS.

The donations for the year have been as follows:

Banana plants and Egyptian Papyrus, Mr. A. O. Bourne, Bristol, R. I.
 Rubber plant, C. E. Ferris, Providence.
 American Eagle, Aerie No. 99, Order of Eagles, Providence.
 Pea hen, W. W. Whipple, Providence.
 Spider Monkey, Mrs. George H. Church, Providence.
 Guinea Pig, Orsmus Vaughan, Providence.
 Henhawk, F. W. Moore, Providence.
 Alligator, from a friend, Newport.
 Twenty Belgian Hares, Henry G. Burlingame, Oaklawn, R. I.
 Georgia Raccoon, Harold William, Providence.
 Dove, Mrs. Mary Wilson, Providence.
 To Betsey Williams Cottage, one large brass kettle, two pairs stockings, and quilt made by Betsey and Rhoda Williams; E. H. Burlingame, Providence.
 Picture, Mrs. Gideon Harris, Worcester, Mass.
 Chamber set, chairs, and picture, very old, a friend, Taunton, Mass.
 Brass nut from torpedo boat Viscaya, in Santiago, Spanish shell, bone from sperm whale, and tea tray, a friend.

PARK MUSEUM.

Alden, Miss Dora, shells from Puget Sound.
 Aldrich, Hon. Nelson W., publications.
 Andrews, Wayland L., Natick, R. I., ancient cooking implement.
 Angell and Cash, skulls of otter and tenrec.
 Bailey, Rev. George, Jamaica, B. W. I., shells and insects.
 Baker, J. W., Pawtucket, minerals.
 Barrett, Samuel D., shells and minerals.
 Battey, John M., a case of thirty-five mounted birds.
 Blake, Charles, star fish, foreign and local.
 Boy, cecropia moth.
 Bradford, Mrs. G. W., a Cuban parrot.
 Brown, Miss Henrietta, East India shells.
 Browne, Dr. R. F. C., a cabinet of selected shells, 450 species and 800 specimens.
 Burke, Emory, boxes and botanical specimens.
 Burkhart, William T., minerals.
 Butler, John J., gothite, wulfenite, and vanadanite.
 Canadian Dept. of Agriculture, publications.

- Carborundum Co., specimens and publications.
Carpenter, Horace F., publications.
Carr, Robert C., a weasel and a squirrel.
Chace, F. H., insects.
Clark, Dr. F. C., minerals, shells, a Japanese garment, tapa cloth, a Sioux Indian pipe, bracelet and game stick.
Church, Capt. Isaac, Tiverton, an aboriginal pestle, and a pair of the bivalve, *Tridacna gigas*.
Clark, J. H., Lower Cambrian fossils.
Congdon, Mrs. Frank H., a collection of thirty-five mounted birds.
Connecticut Agricultural and Experiment Station, publications.
Cornell Agricultural and Experiment Station, publications.
Davis C. Abbott, shells, insects and eggs.
Deardon, William, insects from British Columbia.
Drowne, Frank, a night heron.
Drowne, Fred P., a bumble bee nest with queen, workers and drones.
Elliott, Bernard, quartz crystals.
Exchanges, minerals, shells from California and Europe, birds' eggs, foreign and native, a gray squirrel, an English hedgehog, and Sioux bead work.
Field Columbian Museum, publications.
Finch, Dr. C. H., Chinese sword-cash.
Flint, George Luther, minerals, and implement from the Giant's Causeway.
Ford, C. E., specimens of the seventeen years cicada, R. I.
Friends, glass shades, fresh water sponge, great blue heron, and osprey.
Harrington, George C., a case of tropical insects.
Hastings, Glover S., shells, sea urchins, and insects.
Hatch Experiment Station, publications.
Hathaway, William A., Philippine shells used as window lights.
Hennessey, Lieut. F. B., a hornbill from Philippine Islands.
Holden, Christopher, a ruby-throated hummingbird.
Hose Company No. 15, an ichneumon fly.
Hoyle, C. E., exotic beetles.
Hunter, Robert T., cut chalcedony and sun stones.
Jarvis, P. W., Kingston, Jamaica, sixty species rare land shells of Jamaica.
Lambert, John. Taylor, Wis., yellow-headed blackbirds and Tennessee warblers.
Leighton, Mrs. W. H. ashes from Mt. Pelee.
Livermore, Mrs. M. A., marine algae.
Luther, H. A., snails (*Limax maximus*).
Mason, J. Harold, minerals.
McDonald, Henry T., the skeleton of a dog.
Maryland Agricultural and Experiment Station, publications.
Morgan, Henry P., minerals.
Murry, C. H., Pawtucket, mineral.
Neill, Annie, a Jamaica roach from bananas.
New Hampshire Agricultural and Experiment Station, publications.
Noble, George, insects.



DALRYMPLE BONT HOUSE. ROGER WILLIAMS PARK.

Nock, Bertram, shells and insects.
Nordquist, Eric, polyphemus moths.
Nylen, James V., insects and lizard.
New York State Museum, publications.
Palmer, D. S., bird cards and shells.
Peck, Stephen I., minerals, Rhode Island insects, and specimens of Sioux Indian bead embroidery.
Perry, J. Frank, shells.
Phillips, Eugene F., Rhode Island calamites and fern impressions.
Pierce, Clothier, Dighton, Mass., bird skins.
Pierce, Miss S. E., the first Bible used in the First Baptist Church, of Providence.
Pitman, Miss E. H., Bristol, R. I., magazines and other scientific publications.
Purdum, Dr. C. C., Pawtucket, publications.
Putnam, Prof. F. W., Cambridge, Mass, publications.
Rhode Island Agricultural and Experiment Station, publications.
Roger Williams Park, eggs of swan.
Rounds, William T., minerals.
Russell, Albert, a horned lizard and mounted birds in a case.
Scholfield, Herbert, fossils, minerals, and publications.
Smith, William, Lonsdale, geological specimens.
Smyth, Mrs. Frederick, Manchester, N. H., the vegetable caterpillar (*Cordiceps hugelei*), from New Zealand.
Stang, William, beetle and hermit crab from Jamaica.
State Board of Entomology, Georgia, publications.
Stoddard, Dr. W. O., Kingston, Jamaica, minerals.
Streeter, L. H., shells and American robin.
Swindell, Mrs. Maria, minerals.
Turner, M. W., Warren, R. I., insects.
Tyler, Miss Harriet, lithological specimens.
U. S. Dept. of Agriculture, publications.
U. S. Division of Biology, publications.
U. S. Division of Forestry, publications.
U. S. Dept. of Fish and Fisheries, publications.
U. S. National Museum, publications.
U. S. Smithsonian Institution, publications.
Verley, V. E. L., Jamaica, nest of trap-door spider.
Washington Academy of Science, publications.
Walsham, Miss, ivory nuts.
Whipple, Frank M., aboriginal implements.
White, Joel, ivory nuts and mechanical products.
Wright, Frank E., a roach from campeche.

It will be seen that these accessions, roughly divided into eighty-four groups, are numerically in advance of previous years, though of somewhat less value.

The Commissioners desire to recognize the very kind gratuitous assistance given the Curator in cataloging and arranging specimens, from several gentlemen interested in the success of the Museum.

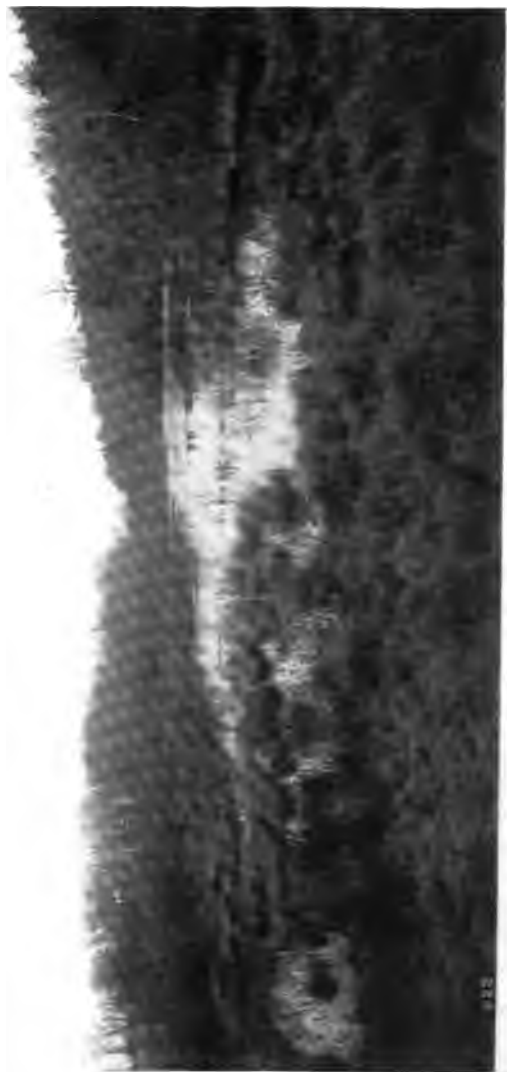
PARK FLORA AND FAUNA.

That the flora and fauna of Roger Williams Park may be better known, and in response to numerous applications for this information, the following partial list has been prepared by the Curator, who calls attention to the fact that in laying out a park for popular pleasure much of the flora and fauna interesting to every naturalist and botanist is of necessity sacrificed. Much of the flora contained in the list is now restricted to land which has not been changed from its naturally wild conditions. The plants enumerated in the following list are arranged after the system and nomenclature of "An Illustrated Flora of the Northern States," by Nathaniel Lord Britton and Addison Brown, 1898, and the numbering refers to the illustrations of that work, and may thus be made useful for further illustration and study. Several exotic species have been introduced in the list without reference and number.

- Sensitive Fern. *Onoclea sensibilis* L. (Fig. 14.)
Hay-scented Fern. *Dicksonia punctilobula* (Michx.) (Fig. 22.)
Marsh Shield-fern. *Dryopteris Thelypteris* (L.) (Fig. 30.)
The Brake. *Pteris aquilina* L. (Fig. 61.)
White Pine. *Pinus strobus* L. (Fig. 110.)
Pitch Pine. *Pinus rigida* Mill. (Fig. 119.)
Austrian Pine. *Pinus Austriaca*.
Scotch Pine. *Pinus sylvestris*.
White Spruce. *Picea Canadensis* (Mill.) (Fig. 121.)
Colorado Blue Spruce. *Picea pungens*.
Norway Spruce. *Picea excelsa*.
Hemlock. *Tsuga Canadensis* (L.) (Fig. 124.)
White Silver Fir. *Abies concolor*.
White Cedar. *Arbor Vitae. Thuja occidentalis* L. (Fig. 129.)
Juniper. *Juniperus communis* L. (Fig. 131.)
Juniper. Var *Hibernica robusta*.
Red Cedar. *Juniperus Virginiani* Savin. (Fig. 133.)
Squarrose-leaved Japan Cypress. *Chamaecyparis squarrosa*. (B. & H.)
Cat-tail. *Typha latifolia* L. (Fig. 136.)
Broad-leaved Arrow-head. *Sagittaria latifolia* Willd. (Fig. 195.)
Slender Finger-grass. *Syntherisma filiformis* (L.) (Fig. 242.)
Agrostis Panicum. *Panicum agrostidiforme* Lam. (Fig. 249.)
Witch Grass. *Panicum capillare* L. (Fig. 274.)
Green Foxtail Grass. *Ixophorus viridis* L. (Fig. 282.)
Timothy. *Phleum pratense* L. (Fig. 334.)
Red-top Herd's Grass. *Agrostis alba* L. (Fig. 362.)
Purple Oat (?). *Avena striata* Michx. (Fig. 393.)
Wire Grass. *Eleusine indica* (L.) (Fig. 415.)
Orchard Grass. *Dactylis glomerata* L. (Fig. 457.)
Wire-grass. English Blue-grass. *Poa compressa* L. (Fig. 461.)
Kentucky Blue-grass. June Grass. *Poa pratensis* L. (Fig. 466.)
Long Sedge. *Carex folliculata* L. (Fig. 674.)
Bladder Sedge. *Carex intumescens* Rudge. (Fig. 675.)
Hop Sedge. *Carex lupulina* Muhl. (Fig. 678.)

- Sallow Sedge. *Carex lurida* Wahl. (Fig. 683.)
 Fringed Sedge. *Carex crinita* Lam. (Fig. 739.)
 Downy Green Sedge. *Carex virescens* Muhl. (Fig. 743.)
 Graceful Sedge. *Carex gracillima* Schwein. (Fig. 747.)
 Loose-flowered Sedge. *Carex laxiflora* Lam. (Fig. 777.)
 Pennsylvania Sedge. *Carex Pennsylvanica* Lam. (Fig. 795.)
 Muhlenberg's Sedge. *Carex Mullenbergii* Schk. (Fig. 843.)
 Jack-in-the-pulpit. Indian Turnip. *Arisaema triphyllum* (L.) (Fig. 876.)
 Skunk Cabbage. *Spathyema foetida* (L.) (Fig. 881.)
 Lesser Duckweed. *Lemna minor* L. (Fig. 888.)
 Pickerel-weed. *Pontederia cordata* L. (Fig. 915.)
 Common Soft Rush. *Juncus effusus* L. (Fig. 919.)
 Sessile-leaved Bellwort. *Uvularia sessifolia* L. (Fig. 988.)
 Turk's-cap Lily. *Lilium superbum* L. (Fig. 1008.)
 Wild Spikenard. *Vagnera racemosa* (L.) (Fig. 1031.)
 False Lily-of-the-Valley. Two-leaved Solomon's Seal. *Unifolium Canadense* (Desf.) (Fig. 1034.)
 Solomon's Seal. *Polygonatum biflorum* (Walt.) (Fig. 1039.)
 Greenbrier. *Smilax rotundifolia* L. (Fig. 1054.)
 Yellow Star-Grass. *Hypoxis hirsuta* (L.) (Fig. 1066.)
 Larger Blue Flag. *Iris versicolor* L. (Fig. 1069.)
 Blue-eyed Grass. *Sisyrinchium angustifolium* Mill. (Fig. 1085.)
 Nodding Ladies' Tresses. *Gryostachys cernua* (L.) (Fig. 1123.)
 Walnut. *Juglans regia*.
 Pig-nut Hickory. *Hicoria glabra* (Mill.) (Fig. 1158.)
 Waxberry. Bayberry. *Myrica Carolinensis* Mill. (Fig. 1161.)
 Sweet Fern. *Comptonia peregrina* (L.) (Fig. 1162.)
 Aspen Poplar. *Populus tremuloides* Mich. (Fig. 1170.)
 Lombardy Poplar. *Populus fastigiata*.
 White Willow. *Salix alba* L. (Fig. 1178.)
 Pussy Willow. *Salix discolor* Muhl. (Fig. 1187.)
 Hazel-nut. *Coryus Americana* Walt. (Fig. 1209.)
 American White Birch. *Betula populifolia* Marsh. (Fig. 1211.)
 Red or River Birch. *Betula nigra* L. (Fig. 1214.)
 Black Birch. *Betula lenta* L. (Fig. 1215.)
 Yellow Birch. *Betula lutea* Michx. (Fig. 1216.)
 European White Birch. *Betula alba*.
 Cut-leaf Weeping Birch. *Betula alba* var *lacinata pendula*.
 Maidenhair Tree. Ginkgo. *Salisburea adiantifolia*.
 Vigilea or Yellow-wood. *Claudrasia tinctoria*.
 American Beech. *Fagus Americana* Sweet. (Fig. 1225.)
 Fern-leaved Beech. *Fagus sylvatica*.
 Weeping Beech. *Fagus sylvatica* var *pendula*.
 Rivers' Beech. *Fagus sylvatica* var *purpurea* Riversii.
 American Chestnut. *Castanea dentata* Marsh. (Fig. 1226.)
 Red Oak. *Quercus rubra* L. (Fig. 1228.)
 Pin Oak. *Quercus palustris* DuRoi. (Fig. 1229.)
 Scarlet Oak. *Quercus coccinea* Wang. (Fig. 1231.)
 Scrub Oak. *Quercus nana* (Marsh). (Fig. 1234.)
 Willow-leaved Oak. *Quercus phellos* L. (Fig. 1237.)

- White Oak. *Quercus alba* L. (Fig. 1240.)
Mossy-cup Oak. *Quercus macrocarpa* Michx. (Fig. 1243.)
Swamp White Oak. *Quercus plantanoides* (Lam.) (Fig. 1244.)
English Oak. *Quercus Robur*.
Golden Oak. *Quercus Robur pedunculata*.
Black or Yellow Oak. *Quercus tinctoria*.
Scrub White Oak. *Quercus ilicifolia*.
American Elm. *Ulmus Americana* L. (Fig. 1250.)
White Mulberry. *Morus alba* L. (Fig. 1258.)
Field Sorrel. *Rumex Acetosella* L. (Fig. 1299.)
Narrow Dock. Curled Dock. *Rumex crispus* L. (Fig. 1309.)
Pigeon-berry. Poke. *Phytolacca decandra* L. (Fig. 1415.)
Purslane. Pussley. *Portulaca oleracea* L. (Fig. 1434.)
Common Chickweed. *Alsine media* L. (Fig. 1475.)
Yellow Pond Lily. Cow Lily. Frog Lily. *Nymphaea advena* Soland.
(Fig. 1527.)
Pond Lily. Water Lily. *Castalia odorata* (Dryand.) (Fig. 1531.)
Tulip-tree. White Wood. *Liriodendron tulipifera* L. (Fig. 1542.)
Wild Columbine. *Aquilegia Canadensis* L. (Fig. 1559.)
Anemone. Wind-flower. *Anemone quinquefolia* L. (Fig. 1576.)
Clematis. Virgin's Bower. *Clematis Virginiana* L. (Fig. 1582.)
Clematis. *Clematis paniculata*.
Buttercup. *Ranunculus fascicularis* Muhl. (Fig. 1621.)
Common or European Barberry. *Berberis vulgaris* L. (Fig. 1640.)
Purple-leaved Barberry. *Berberis vulgaris* var *purpurea*.
Thunberg's Barberry. *Berberis Thunbergii*.
Carolina Allspice. *Butneria florida* (L.) (Fig. 1650.)
Celandine. *Chelidonium majus* L. (Fig. 1668.)
Peppergrass. Pepperwort. *Lepidium Virginicum* L. (Fig. 1687.)
Yellow Rocket or Cress. *Barbarea Barbarea* (L.) (Fig. 1709.)
Shepherd's Purse. *Bursa-pastoris* (L.) (Fig. 1752.)
Early Saxifrage. *Saxifrage Virginiana* Michx. (Fig. 1833.)
Mock Orange. Garden 'Syringa. *Philadelphus grandiflorus* Willd.
(Fig. 1862.)
Hamamelis. Witch Hazel. *Hamamelis Virginiana* L. (Fig. 1879.)
Liquidambar. Sweet Gum. *Liquidambar styraciflua* L. (Fig. 1890.)
Button-wood. Plane-tree. *Platanus occidentalis* L. (Fig. 1891.)
American Meadow-Sweet. *Spiraea salicifolia* L. (Fig. 1893.)
Steeple-bush. Hardhack. *Spiraea tomentosa* L. (Fig. 1894.)
Van Houttes Spiraea. *Spiraea Van Houttei*.
Thunberg's Spiraea. *Spiraea Thunbergii*.
Golden Spiraea. *Spiraea opifolia* var *aurea*.
Bridal Wreath. *Spiraea prunifolia* var *flore plena*.
Spiraea Anthony Waterer.
Panicled Hydrangea. *Hydrangea Paniculata*.
Black Raspberry. Thimbleberry. *Rubus occidentalis* L. (Fig. 1896.)
High Bush Blackberry. *Rubus villosus* Ait. (Fig. 1898.)
Low Running Blackberry. *Rubus Canadensis* L. (Fig. 1906.)
Virginia Strawberry. *Fragaria Virginiana* Duchesne. (Fig. 1908.)
Shrubby Cinquefoil. *Potentilla fruticosa* L. (Fig. 1932.)



THE SWALE. ROGER WILLIAMS PARK.

- Cinquefoil. Five-fingers. *Potentilla Canadensis* L. (Fig. 1935.)
 Dwarf Wild Rose. *Rosa humilis* Marsh. (Fig. 1971.)
 White Ramanas Rose. *Rosa rugosa alba*.
 Red Ramanas Rose. *Rosa rugosa rubra*.
 Spreading Japanese Rose. *Rosa wichuriana*.
 American Mountain Ash. *Sorbus Americana* Marsh. (Fig. 1975.)
 Black Chokeberry. *Aronia nigra* (Willd.) (Fig. 1984.)
 Shad Bush. *Amelanchier Botryapium* (L. f.) (Fig. 1986.)
 Hawthorne. White Thorn. *Crataegus oxyacantha* L. (Fig. 1995.)
 Scarlet Thorn. Red Haw. *Crataegus coccinea* L. (Fig. 1998.)
 Piscard's Purple-leaved Plum. *Prunus pissardii*.
 Choke Cherry. *Prunus Virginiana* L. (Fig. 2024.)
 Black Cherry. *Prunus serotina* Ehrh. (Fig. 2026.)
 Red-bud. American Judas-tree. *Cercis Canadensis* L. (Fig. 2033.)
 Sensitive Pea. *Cassia nictitans* L. (Fig. 2034.)
 Wild Indigo. *Baptisia tinctoria* (L.) (Fig. 2050.)
 Black-seed Hop Clover. *Medicago lupulina* L. (Fig. 2065.)
 Yellow or Hop Clover. *Trifolium agrarium* L. (Fig. 2070.)
 Rabbit-foot Clover. *Trifolium arvense* L. (Fig. 2074.)
 Red Clover. *Trifolium pratense* L. (Fig. 2075.)
 White Clover. *Trifolium repens* L. (Fig. 2083.)
 American Wisteria. *Kraunhia frutescens* (L.) (Fig. 2120.)
 Yellow Wood Sorrel. *Oxalis stricta* L. (Fig. 2254.)
 Golden Hop-tree. *Ptelia trifoliata* var *aurea* L. (Fig. 2271.)
 Purple Milkwort. *Polygala viridescens* L. (Fig. 2281.)
 Dwarf or Mountain Sumac. *Rhus Copallina* L. (Fig. 2347.)
 Staghorn Sumac. *Rhus hirta* (L.) (Fig. 2348.)
 Poison Sumac. Poison Elder. *Rhus Vernix* L. (Fig. 2352.)
 Poison or Three-leaved Ivy. *Rhus radicans* L. (Fig. 2353.)
 Smoke-tree. *Cotinus cotinoides* (Nutt.) (Fig. 2354.)
 Black Alder. Winter-berry. *Ilex verticillata* (L.) (Fig. 2362.)
 Bittersweet. Wax-work. *Celastrus scandens* L. (Fig. 2370.)
 Bladder-nut. *Staphylea trifolia* L. (Fig. 2371.)
 White or Silver Maple. *Acer saccharinum* L. (Fig. 2372.)
 Red or Swamp Maple. *Acer rubrum* L. (Fig. 2373.)
 Sugar or Rock Maple. *Acer Saccharum* Marsh. (Fig. 2375.)
 Striped Maple. Moosewood. *Acer Pennsylvanicum* L. (Fig. 2378.)
 Mountain Maple. *Acer spicatum* Lam. (Fig. 2379.)
 Cut-leaf Norway Maple. *Acer plantanoides* var *dissectum*.
 Weir's Cut-leaf Maple. *Acer saccharinum* var *Weirii*.
 Horse Chestnut. *Esculus Hippocastanum* L. (Fig. 2381.)
 Grape. *Vitis Labrusca* L. (Fig. 2398.)
 American Ivy. Virginia Creeper. *Parthenocissus quinquefolia* (L.)
 (Fig. 2410.)
 Japan Ivy. Boston Ivy. *Ampelopsis Veitchii*.
 St. John's Wort. *Hypericum perforatum* L. (Fig. 2454.)
 Marsh St. John's Wort. *Triadenum Virginicum* L. (Fig. 2464.)
 Early Blue Violet. *Viola palmata* L. (Fig. 2484.)
 Bird's-foot Violet. *Viola pedata* L. (Fig. 2492.)
 Sweet White Violet. *Viola blanda* Willd. (Fig. 2497.)

- Meadow-Beauty. *Rhexia Virginica* L. (Fig. 2552.)
Fire-weed. Willow-herb. *Chamaenerion angustifolium* (L.) (Fig. 2553.)
Soft Willow-herb. *Epilobium strictum* Muhl. (Fig. 2573.)
Evening Primrose. *Onagra biennis* (L.) (Fig. 2579.)
Common Sundrops. *Knoffia fruticosa* (L.) (Fig. 2592.)
Wild Sarsaparilla. *Aralia nudicaulis* L. (Fig. 2628.)
Wild Carrot. *Daucus carota* L. (Fig. 2632.)
Flowering Dogwood. *Cornus florida* L. (Fig. 2712.)
Flowering Dogwood. *Cornus florida* L. Var. *rubra*.
Flowering Dogwood. *Cornus florida* Var. *pendula*.
Silky Cornel. Kinnikinnik. *Cornus Amonum* Mill. (Fig. 2714.)
Red-osier Cornel. Dogwood. *Cornus stolonifera* Michx. (Fig. 2717.)
Alternate-leaved Cornel. *Cornus alternifolia* L. (Fig. 2720.)
Round-leaved Wintergreen. *Pyrola rotundifolia* L. (Fig. 2726.)
Pipsissewa. Princes Pine. *Chimaphila umbellata* (L.) (Fig. 2733.)
Indian Pipe. *Monotropa uniflora* L. (Fig. 2739.)
White Azalea. Swamp Honeysuckle. *Azalea viscosa* L. (Fig. 2747.)
Japanese Hybrids. *Azalea mollis*.
Althea. Rose of Sharon. *Hebiscus Syriacus*.
High Laurel. *Kalmia latifolia* L. (Fig. 2757.)
Soulange's Magnolia. *Magnolia Soulangeana*.
Checkerberry. *Gaultheria procumbens* L. (Fig. 2775.)
Black Huckleberry. *Gaylussacia resinosa* (Ait.) (Fig. 2780.)
High-bush Blueberry. *Vaccinium corymbosum* L. (Fig. 2788.)
Low-bush Blueberry. *Vaccinium Pennsylvanicum* Lam. (Fig. 2791.)
Yellow Loosestrife. *Lysimachia vulgaris* L. (Fig. 2811.)
Whorled Loosestrife. *Lysimachia quadrifolia* L. (Fig. 2813.)
Star Flower. *Tridentalis Americana* Pursh. (Fig. 2822.)
Lilac. *Syringa vulgaris* L. (Fig. 2837.)
White Lilac. *Syringa vulgaris* Var. *alba*.
Persian Lilac. *Syringa Persica*.
Japan Tree Lilac. *Syringa Japonica*.
Japan Quince. *Cydonia Japonica*.
Deutzia. *Deutzia gracilis*.
Deutzia. *Deutzia crenata*.
Weigelia. *Weigelia rosea*.
Fortune's Golden-bell. *Forsythia Fortunei*.
Weeping Golden-bell. *Forsythia suspensa*.
Golden-bell. *Forsythia Viridissima*.
Fringe-tree. *Chionanthus Virginica* L. (Fig. 2845.)
Common Privet. *Ligustrum vulgare* L. (Fig. 2846.)
California Privet. *Ligustrum ovalifolium*.
Closed Gentian. *Gentiana Andrewsii* Griseb. (Fig. 2876.)
Spreading Dogbane. *Apocynum androsaemifolium* L. (Fig. 2895.)
Common Milkweed. *Asclepias Syriaca* L. (Fig. 2914.)
Whorled Milkweed. *Asclepias verticillata* L. (Fig. 2920.)
Common Dodder. *Cuscuta Gronovii* Willd. (Fig. 2963.)
Small Skullcap. *Scutellaria parvula* Michx. (Fig. 3083.)
Motherwort. *Leonurus Cardiaca* L. (Fig. 3108.)
Betony. *Betonica officinalis* L. (Fig. 3123.)

- Nightshade. *Solanum Dulcamara* L. (Fig. 3218.)
 Jamestown or Jimson-weed. *Datura Stramonium* L. (Fig. 3222.)
 Great Mullen. Velvet Dock. *Verbascum Thapsus* L. (Fig. 3229.)
 Moth Mullen. *Verbascum Blattaria* L. (Fig. 3232.)
 Butter-and-eggs. *Linaria Linaria* (L.) (Fig. 3236.)
 Snake-head. *Chelone glabra* L. (Fig. 3244.)
 False Foxglove. *Dasystoma pedicularia* (L.) (Fig. 3303.)
 Downy False Foxglove. *Dasystoma flava* (L.) (Fig. 3304.)
 Trumpet-flower. *Tecoma radicans* L. (Fig. 3366.)
 Plantain. *Plantago major* L. (Fig. 3378.)
 Rugel's Plantain. *Plantago Rugelii* Dec. (Fig. 3379.)
 Hoary Plantain. *Plantago media* L. (Fig. 3381.)
 Innocence. Bluets. *Houstonia coerules* L. (Fig. 3393.)
 Button-bush. *Cephalanthus occidentalis* L. (Fig. 3403.)
 Partridge-berry. *Mitchella repens* L. (Fig. 3404.)
 Clavers. Bedstraw. *Galium Aparine* L. (Fig. 3412.)
 American Elder. *Sambucus Canadensis* L. (Fig. 3432.)
 Cranberry-tree. *Viburnum opulus* L. (Fig. 3435.)
 Arrow-wood. *Viburnum dentatum* L. (Fig. 3439.)
 Black Haw. *Viburnum prunifolium* L. (Fig. 3445.)
 Common Snowball. *Viburnum opulus* Var *Sterilis*.
 Japan Snowball. *Viburnum plicatum*.
 Snowberry. *Symphoricarpos racemosus* Michx. (Fig. 3451.)
 Coral-berry. *Symphoricarpos Symphoricarpos* (L.) (Fig. 3454.)
 Indian Tobacco. *Lobelia inflata* L. (Fig. 3509.)
 Dandelion. *Taraxacum Taraxacum* L. (Fig. 3532.)
 Broad Cocklebur. *Xanthium strumarium* L. (Fig. 3599.)
 Joe-Pye-weed. Thoroughwort. *Eupatorium purpureum* L. (Fig. 3615.)
 Boneset or Common Thoroughwort. *Eupatorium perfoliatum* L.
 (Fig. 3627.)
 Blue-stemmed Golden-rod. *Solidago caesia* L. (Fig. 3673.)
 White Golden-rod. *Solidago bicolor* L. (Fig. 3676.)
 Sweet-scented Golden-rod. *Solidago odora* Ait. (Fig. 3691.)
 Gray or Field Golden-rod. *Solidago nemoralis* Ait. (Fig. 3709.)
 Varous-leaved Aster. *Aster multiformis* Burgess. (Fig. 3747.)
 Wavy-leaved Aster. *Aster undulatus* L. (Fig. 3757.)
 Late Purple Aster. *Aster pateus* Ait. (Fig. 3758.)
 Smooth Aster. *Aster laevis* L. (Fig. 3768.)
 New York Aster. *Aster Novi-Belgii* L. (Fig. 3773.)
 Calico Aster. *Aster lateriflorus* L. (Fig. 3799.)
 Robin's Plantain. *Erigeron pulchellus* Michx. (Fig. 3819.)
 Daisy Fleabane. *Erigeron ramosus* (Walt.) (Fig. 3824.)
 Mouse-ear everlasting. *Antennaria plantaginifolia* (L.) (Fig. 3848.)
 Pearly Everlasting. *Anaphalis margaritacea* L. (Fig. 3850.)
 Clammy Everlasting. *Gnaphalium decurrens* Ives. (Fig. 3853.)
 Cone-flower. Yellow Daisy. *Rudbeckia laciniata* L. (Fig. 3890.)
 Beggar ticks. *Bidens frondosa* L. (Fig. 3944.)
 Yarrow. Milfoil. *Achillea Milfolium* L. (Fig. 3983.)
 Ox-eye Daisy. *Chrysanthemum Leucanthemum* L. (Fig. 3988.)
 Round-leaf Squaw Weed. *Senecio obovatus* Muhl. (Fig. 4041.)

Burdock. *Arcium Lappa* L. (Fig. 4056.)
Canada Thistle. *Carduus arvensis* (L.) (Fig. 4071.)
Scotch Thistle. *Onopordon Acanthium* L. (Fig. 4075.)

FUNGI.

Common Field Mushroom. *Agaricus campestris*.
The Parasol Fungus. *Lepiota procera*.
The Fairy-ring Fungus. *Marasmius oreades*.
The Chanterelle. *Cantharellus cibarius*.
The Puffball. *Lycoperdon cyathiforme*.
The Deadly Agaric. *Amanita phalloides*.
Red, Purple or Yellow Fungi. *Russula*.

FRESH WATER ALGAE.

Oedogonium capillare (L.) Kg.
Bulbochæte setigera (Roth.) Ag.
Protococcus viridis var *botryoides* (Rab.)
Chytridium globosum A. Br.
Spirogyra varians (Hass.) Kg.
Penium digitus (Ehrh.) Breb.
Staurostrum crenatum Bailey.
Anabæna gigantea Wood.
Anabæna oscillarioides Bary.
Oscillaria detersa Stitz.

Mr. Horace F. Carpenter, the local authority for Rhode Island Mollusca, says that ten years ago Cunliff's Pond was considered a Mecca for conchologists, being more prolific of species than any other locality in Rhode Island. Two years later the water was drawn off and the bottom dredged, resulting in the apparent extermination of some twelve species, including *Valvata* (*Lyogyrus*) *brownii* H. F. Carpenter, discovered in the pond in 1870, this being the only known locality for that species. At the present time we find twelve species.

Ammicola limosa Say.
Melantho decisa Say.
Zonitoides arboreus Say.
Polygyra albolabris Say.
Vertigo ovata Say.
Physa ancillaria Say.
Planorbis campanulatus Say.
Planorbis parvus Say.
Segmentina armigera Say.
Sphærium partumeium Say.
Unio complanatus Solander.
Anodonta implicata Say.



FLOCK OF SOUTHDOWN SHEEP. ROGER WILLIAMS PARK.

INSECTA.

A description and history of the local butterflies mentioned in this list, accompanied by colored illustrations, may be found in "The Butterfly Book," a popular guide to a knowledge of the "Butterflies of North America," by W. J. Holland, Ph. D., 1898.

BUTTERFLIES.

- The Monarch. Milkweed Butterfly. *Anosia plexippus* Lin. (P. 82.)
 The Variegated Fritillary. *Euptoieta claudia* Cramer. (P. 99.)
 The Regal Fritillary. *Argynnis idalia* Drury. (P. 103.)
 The Spangled Fritillary. *Argynnis cybele* Fab. (P. 106.)
 Silver-bordered Fritillary. *Brenthis myrina* Cramer. (P. 129.)
 Meadow Fritillary. *Brenthis bellona* Fab. (P. 134.)
 The Pearl Crescent. *Phyciodes tharos* Drury. (P. 153.)
 The Question Sign. *Grapta interrogationis* Fab. (P. 164.)
 The Comma Butterfly. *Grapta comma* Harris. (P. 165.)
Grapta progné Cramer. (P. 166.)
 The Compton Tortoise. *Vanessa j-album* B. & L. (P. 168.)
 The Mourning Cloak. *Vanessa antiopa* Linn. (P. 169.)
 The Red Admiral. *Pyrameis atalanta* Linn. (P. 170.)
 Hunter's Butterfly. *Pyrameis huntera* Fab. (P. 170.)
 Painted Lady. Thistle Butterfly. *Pyrameis cardui* Linn. (P. 170.)
 The Viceroy. *Basilarchia disippus* Godart. (P. 185.)
 Little Wood-satyr. *Neonympha eurytus* Fab. (P. 203.)
 Wood-nymph. *Satyrus alope* Fab. (P. 215.)
 The Banded Hair-streak. *Thecla calamus* Huber. (P. 243.)
 The Brown Elfin. *Thecla augustus* Kirby. (P. 247.)
 American Copper. *Chrysophanus hypophlæas* Bois. (P. 254.)
 The Common Blue. Spring Azure. *Lycæna pseudargiolus* B. & L. (P. 267.)
 The Tailed Blue. *Lycæna comyntas* Godart. (P. 268.)
 The Cabbage-butterfly. *Pieris rapæ* Linn. (P. 280.)
 The Common Sulphur. *Colias philodice* Godart. (P. 291.)
 The Little Sulphur. *Terias lisa* B. & L. (P. 297.)
 The Tiger Swallowtail. *Papilio turnus* Linn. (P. 309.)
 Baird's Butterfly. *Papilio bairdii* Edws. (P. 313.)
 The Black Swallowtail. *Papilio asterias* Fab. (P. 314.)
 Spice-bush Swallowtail. *Papilio troilus* Linn. (P. 315.)

SKIPPERS.

- Silver-spotted Skipper. *Epargyreus tityrus* Fab. (P. 323.)
 Juvenal's Dusky-wing. *Thanaos juvenalis* Fab. (P. 335.)
 Leonard's Skipper. *Erynnis leonardis* Harris. (P. 349.)
 Peck's Skipper. *Polites peckius* Kirby. (P. 353.)
 Hobomok Skipper. *Atrytone zabulon* Bois. (P. 364.)

MOTHS.

- Clear-wing Sphinx. *Hemaris thysbe* Fabr.
 Bumblebee Hawk-moth. *Hemaris diffinis* Bdv.

- Abbott's Sphinx. *Thyreus abbottii* Swains.
 Amphoin erness Cramer.
 The White-lined Sphinx. *Deilephila lineata* Fabr.
 Pandorus Sphinx. *Philampelus pandorus* Hub.
 Hog-caterpillar of the Vine. *Ampelophaga myron* Cramer.
Ampelophaga choerilus Cramer.
 The Potato Hawk Moth. *Protoparce celeus* Hub.
 The Tobacco Hawk Moth. *Protoparce carolina* Linn.
 Wild-cherry Sphinx. *Hyloicus drupiferarum* A. & S.
 Gordian Sphinx. *Hyloicus gordius* Cramer.
 The Twin-spotted Sphinx. *Smerinthus geminatus* Say.
 The Cherry Sphinx. *Smerinthus myops* A. & S.
 The Eight-spotted Forester. *Alypia octomaculata* Fabr.
 Tiger Moths. *Apantesis nais* Dru.
 Apantesis arge Dru.
 Apantesis virguncula Kirby.
 The Isabella Tiger Moth. *Pyrrharctia Isabella* S. & A.
 The Fall Web-worm. *Hyphantria cunea* Dru.
 The Salt-marsh Caterpillar. *Estigmene acrea* Dru.
 The Yellow-Bear. *Spilosoma virginica* Fabr.
 The Hickory Tiger Moth. *Halisidota caryæ* Harr.
 The Skiff Caterpillar. *Limacodes scapha*.
 The Poplar Mocha-stone Moth. *Melalopha inclusa* Hub.
 The Yellow-necked Apple-tree Worm. *Datana ministra* Drury.
 The Black Hickory Worm. *Datana integerrima* G. & R.
 The Crinkled Flannel-moth. *Megalopyge crispata* Pack.
 The White-tipped Moth. *Edema albifrons* S. & A.
 Red-humped Apple-worm. *Edemacia concinna* Sm. & Abb.
 The Cecropia Moth. *Samia cecropia* Linn.
 The Promethea Moth. *Callosamia promethea* Drury.
 The Moon Moth. *Tropæa luna* Linn.
 The Polyphemus Moth. *Telea polyphemus* Linn.
 The Io-Moth. *Automeris io* Linn.
 The Spring Oak-worm. *Anisota stigma* Fbr.
 The Regal Moth. *Citheronia regalis* Hubner.
 The Imperial Moth. *Basilona imperialis* Hubner.
 The Rosy Dryocampa or Green-striped Maple-worm. *Dryocampa rubicunda* Fbr.
 The Tent-caterpillar. *Clisiocampa americana* Fbr.
 The Army Worm. *Leucania unipuncta* Harv.
 Cut-worms. *Agrotis ypsilon* Rott.
 Agrotis saucia Hbn.
 Feltia subgothica Harv.
 Feltia herilis Grt.
 Hadena arctica Bdv.
 Hadena dubitans Wlk.
 Loopers. *Plusia præcætionis* Gue.
 Plusia brassicæ Riley.
 Plusia simplex Gue.

- Clover Owlet. *Drasteria erechtea* Cram.
Drasteria erichto.
 Underwing Moths. *Catocala illia* Cramer.
Catocala concumbens Wlk.
Catocala relicta Wlk.
Catocala cara Gue.
 The Firstborn Geometer. *Brepheos infans* Moeschl.
 The Spring Canker-worm. *Paleacrita vernata* Peck.
 The Fall Canker-worm. *Alsophila pometaria* Harris.
 Gometridæ. *Eugonia alniaria* Hubner.
Tetraxis lorata Grote.
Azelina hubneraria Guenee.
 The Coddling Moth. *Carpocapsa pomonella* Linn.

BEETLES.

This list follows the system and numbering of "List of Coleoptera of America, North of Mexico, by Samuel Henshaw. Philadelphia Entomological Society, 1885."

BEETLES, COLEOPTERA.

24. Tiger Beetles. *Cicindela sexguttata* Fab.
 24b. *Cicindela patruela* Dej.
 25. *Cicindela purpurea* Oliv.
 32. *Cicindela vulgaris* Say.
 33. *Cicindela rapanda* Dej.
 40. *Cicindela punctulata* Fab.
 82a. Ground Beetles. *Cychrus lecontei* Dej.
 142. The Copper Spotted. *Calosoma calidum* Fab.
 160. *Elaphrus ruscarius* Say.
 220. *Scarites subterraneus* Fab.
 417. *Bembidium quadrimaculatum* Linn.
 814. *Platynus octopunctatus* Fab.
 851. *Galerita janus* Fab.
 872. *Lebia grandis* Hentz.
 873. *Lebia grandis* Hentz.
 996. *Chlænus sericeus* Forst.
 1083. *Harpalus caliginosus* Fab.
 1087. *Harpalus pennsylvanicus* DeG.
 1532. Whirligig Beetles. *Dineutes vittatus* Ger.
 1534. *Dineutes discolor* Aub.
 3033. Lady-bug Beetles. *Anisosticta strigata* Thu.
 3058. *Coccinella novemnotata* Hbst.
 3066. *Adalia frigida* Sch.
 3067. *Adalia bipunctata* Lin.
 3226. *Tritoma biguttata* Say.
 3428. Museum, Larder and Carpet Beetles. *Dermestes vulpinus* Fab.
 3429. *Dermestes frischii* Kug.
 3434. *Attagenus piceus* Oliv.

3444. Museum, Larder and Carpet Beetles. *Anthrenus scrophularis*.
Lin.
Anthrenus varius Fab.
3445. Click-beetles. *Alaus oculatus* Lin.
4003. *Elatér nigricollis* Hbst.
4221. *Elatér linteus* Say.
4222. *Limónius plebejus* Say.
4358. *Corymbites cylindriciformis* Hb.
4434. *Corymbites hieroglyphicus* Say.
4482. Metallic Wood-borers. *Chalcophora liberta* Ger.
4570. *Dicerca divaricata* Say.
4577. *Chrysobothris femorata* Fab.
4639. *Acmaeodera culta* Web.
4707. *Agrilus ruficollis* Fab.
4721. *Brachys ovata* Web.
4758. Stag Beetles. *Lucanus dama* Lin.
5412. *Ceruchus piceus* Web.
5422. Scarab or Scavenger Beetles. *Dichelonycha fuscula* Lec.
5663. *Serica sericea* Ill.
5681. *Serica trociformis* Burm.
5689. Leaf and Flower Beetles. *Lachnosterna fusca* Fr.
5757. *Cotalpa lanigera* Lin.
5851. *Ligyris gibbosus* DeG.
5869. *Strategus antæus* Fab.
5881. *Euphoria inda* Lin.
5911. *Trichlus affinis* Gor.
5939. Long-horned Beetles. *Prionus laticollis* Dru.
5959. *Elaphidion villosus* Fab.
6062. *Cyllene robina* For.
6171. *Xylotrechus colonus* Fab.
6179. *Euderces picipes* Fab.
6212. *Rhagium lineatum* Oliv.
6232. *Typocerus velutinus* Oliv.
6292. *Leptura zebra* Oliv.
6319. *Leptura rubrica* Say.
6333. *Monohammus titillator* Fab.
6385. *Monohammus confusus* Kirby.
6388. *Oberea ruficollis* Fab.
6505. *Tetraopes canteriator* Drap.
6510. *Tetraopes tetraophthalmus* Forst.
6511. Leaf-Beetles. *Crioceris asparagi* Lin.
6577. *Babia 4-guttata* Oliv.
6596. *Cryptocephalus 4-maculatus* Say.
6614. *Pachybrachys othonus* Say.
6662. *Xanthonia 10-notata* Say.
6720. *Paria 6-notata* Say.
6747. *Chrysomela elegans* Oliv.
- 6805L. *Diabrotica vittata* Fab.
6885. *Haltica marevagans* Horn.
10423. *Odontota scapularis* Oliv.
- 7075.



BEUSEY WILLIAMS COTTAGE. ROGER WILLIAMS PARK.

7070. Leaf-Beetles. *Odontota dorsalis* Thunb.
 7546. *Helops micans* Fab.
 7565. *Helops æreus* Germ.
 8061. Blister-Beetles. *Macrobasia unicolor* Kirby.
 8093. *Epicauta vittata* Fab.
 8007. *Epicauta cinerea* Forst.
 8104. *Epicauta pennsylvanica* DeG.
 8423. Curculios or Weevils. *Apion rostrum* Say.
 8498. *Lixus concavus* Fab.

REPTILES.

This list follows the system of Bulletin No. 24, United States National Museum. "A Check List of North American Reptilia and Batrachia," by H. C. Yarrow, M. D., Washington, D. C., 1883.

16. Snapping Turtle. *Chelydra serpentina* (Linn.) Schweigger.
 18. Musk Turtle. *Aromochelys odorata* (Lath.) Gray.
 36. Painted Turtle. *Chrysemys picta* (Herm.) Gray.
 41. Spotted Turtle. *Chelopus guttatus* (Schweigger.) Cope.
 43. Striated Turtle. *Chelopus insculptus* (LeConte.) Cope.
 46. Box Tortoise. *Cistuda carolina* (Linn.) Cope.

SNAKES.

232. Ring-necked Snake. *Diadophis punctatus punctatus* (Linn.) Cope.
 248. Green Snake. *Cyclophis vernalis* DeKay.
 265. Black Snake. *Bascanium constrictor* Linn.
 291. Striped Garter Snake. *Eutænia sirtalis sirtalis* (Linn.) Cope.
 304. DeKay's Snake. *Storeria Dekayi* Holbrook.
 319. Water Snake. *Tropidonotus sipedon sipedon* (Linn.) Cope.
 327. Spreading or Blowing Adder. *Heterodon platyrhinus platyrhinus* (Latreille.) Yarrow.

BATRACHIANS.

350. Spotted Salamander. *Amblystoma punctatum* Linn.
 376. Chestnut-backed Salamander. *Plethodon cinereus erythronotus* (Green.) Cope.
 417. Toad. *Bufo lentiginosus americanus* (Shaw.) Cope.
 438. Pickering's Hyla. *Hyla Pickeringi* Holbrook.
 440. Tree Frog. *Hyla versicolor*. LeConte.
 462. Swamp Frog. *Rana palustris* LeConte.
 465. Bull Frog. *Rana catesbiana* Shaw.
 467. Wood Frog. *Rana temporaria sylvatica* (Linn.) Cope.

FISHES.

This list follows the system of Bulletin No. 16, United States National Museum. "A synopsis of the Fishes of North America," by David S. Jordan and Charles H. Gilbert, 1882.

98. Horned Pout. *Amiurus catus* (L.) Gill.
 142. Sucker. *Catostomus commersoni* (Lacépède) Jordan.
 347. Dace. *Semotilus corporalis* (Mitch.) Putn.

427. Gold-carp. Gold-fish. *Carassius auratus* (L.) Bleeker.
 428. Carp. *Cyprinus carpio* L.
 575. Pickerel. *Esox reticulatus* LeSueur.
 587. Eel. *Anguilla rostrata* (LeSueur.) DeKay.
 757. Sun-fish. Bream. Pumpkin-seed. *Lepomis gibbosus* (L.) McKay.
 759. Large-mouthed Black Bass. *Micropterus salmoides* (Lac.) Henshall.
 826. Yellow Perch. *Perca americana* Shrank.
 833. White Perch. *Roccus americana* (Gmel.) J. & G.

BIRDS.

This list follows the system and number of the "Check-list of North American Birds," prepared by a committee of the American Ornithologist's Union, 1895.

6. Pied-bill Grebe. *Podilymbus podiceps* (Linn.) Autumn Visitant.
 51a. American Herring Gull. *Larus argentatus smithsonianus* Cones. Flying overhead.
 133. Black Duck. *Anas obscura* Gmel. Autumn and spring.
 140. Blue-winged Teal. *Querquedula discors* Linn.
 144. Wood Duck. *Aix sponsa* (Linn.) Autumn and spring.
 146. Redhead. *Aythya americana* (Eyt.) Autumn of 1899.
 147. Canvas-back. *Aythya vallisneria* (Wils.) Autumn, 1899.
 148. American Scaup Duck. *Aythya marila nearctica* Stejn. Autumn.
 149. Lesser Scaup Duck. *Aythya affinis* (Eyt.)
 151. American Golden-eye. *Glaucionetta clangula americana* (Bonap.) Autumn and winter.
 167. Ruddy Duck. *Erismatura jamaicensis* (Gmel.) Autumn.
 172. Wild Goose. *Branta canadensis* (Linn.)
 190. American Bittern. *Botaurus lentiginosus* (Montag.)
 194. Great Blue Heron. *Ardea herodias* Linn. Autumn.
 201. Green Heron. *Ardea virescens* Linn. At one time breeding.
 202. Black-crowned Night Heron. *Nycticorax nycticorax naevius* (Bodd.)
 214. Sora. Carolina Rail. *Porzana carolina* (Linn.) Sept. 6. 1895.
 221. Coot. *Fulica americana* Gmel. Autumn occasionally.
 228. American Woodcock. *Philohela minor* (Gmel.)
 256. Solitary Sandpiper. *Helodromas solitarius* (Wils.)
 263. Spotted Sandpiper. *Actitis macularia* (Linn.) Breeding.
 273. Killdeer. *Aegialitis vocifera* (Linn.)
 289. Bob-white Quail. *Colinus virginianus* (Linn.)
 300. Ruffed Grouse. Partridge. *Bonasa umbellus* (Linn.).
 316. Mourning Dove. *Zenaidura macroura* (Linn.).
 331. Marsh Hawk. *Circus hudsonius* (Linn.)
 332. Sharp-shinned Hawk. *Accipiter velox* (Wils.)
 333. Cooper's Hawk. *Accipiter cooperii* (Bonap.)
 334. American Goshawk. *Accipiter atricapillus* (Wils.).
 339. Red-shouldered Hawk. *Buteo lineatus* (Gmel.).
 357. Pigeon Hawk. *Falco columbarius* Linn.
 360. American Sparrow Hawk. *Falco sparverius* Linn.
 364. American Osprey. *Pandion haliaetus carolinensis* (Gmel.).

368. Barred Owl. *Syrnium nebulosum* (Forst.)
 373. Screech Owl. *Megascops asio* (Linn.). Breeding.
 387. Yellow-billed Cuckoo. *Coccyzus americanus* (Linn.).
 388. Black-billed Cuckoo. *Coccyzus erythrophthalmus* (Wils.).
 390. Belted Kingfisher. *Ceryle Alcyon* (Linn.).
 393. Hairy Woodpecker. *Dryobates villosus* (Linn.).
 394c. Downy Woodpecker. *Dryobates pubescens medianus* (Swains).
 Breeding.
 406. Red-headed Woodpecker. *Melanerpes erythrocephalus* (Linn.).
 412a. Northern Flicker. *Colaptes auratus luteus* Bangs. Breeding.
 417. Whip-poor-will. *Antrostomus vociferus* (Wils.).
 420. Nighthawk. *Chordeiles virginianus* (Gmel.).
 423. Chimney Swift. *Chætura pelagica* Linn.). Breeding.
 428. Ruby-throated Hummingbird. *Trochilus colubris* Linn. Breed-
 ing.
 444. Kingbird. *Tyrannus tyrannus* (Linn.) Breeding.
 452. Crested Flycatcher. *Myiarchus crinitus* (Linn.).
 456. Phoebe. *Sayornis phoebe* (Lath.).
 461. Wood Pewee. *Contopus virens* (Linn.). Breeding.
 467. Least Flycatcher. *Empidonax minimus* Baird.
 474. Horned Lark. *Octocoris alpestris* (Linn.). Autumn, spring.
 477. Blue Jay. *Cyanocitta cristata* (Linn.). Breeding.
 488. American Crow. *Corvus americanus* Aud. Breeding.
 495. Cowbird. *Molothrus ater* (Bodd.). Breeding.
 498. Red-winged Blackbird. *Agelaius phoeniceus* (Linn.). Breeding.
 506. Orchard Oriole. *Icterus spurius* (Linn.).
 507. Baltimore Oriole. *Icterus galbula* (Linn.). Breeding.
 509. Rusty Grackle. *Scolecophagus carolinus* (Mull.). Migrant.
 511. Purple Grackle. *Quiscalus quiscula* (Linn.).
 511b. Bronzed Grackle. *Quiscalus quiscula æneus* (Ridgw.). Breeding.
 House Sparrow. European Sparrow. *Passer domesticus* Linn.
 Introduced. Breeding.
 517. Purple Finch. *Carpodacus purpureus* (Gmel.). Breeding.
 521. American Crossbill. *Loxia curvirostra minor* (Brehm). Winter
 and spring.
 528. Redpoll. *Acanthis linaria* (Linn.). Winter and spring.
 529. American Goldfinch. *Astragalinus tristis* Linn.). The entire
 year.
 533. Pine Siskin. *Spinus pinus* (Wils.). Winter.
 534. Snowflake. Snow Bunting. *Passerina nivalis* (Linn.). Winter.
 540. Vesper Sparrow. *Pooecetes gramineus* (Gmel.). Breeding.
 554. White-crowned sparrow. *Zonotrichia leucophrys* (Forst.). Au-
 tumn and spring.
 558. White-throated. *Zonotrichia albicollis* (Gmel.). Autumn and
 spring.
 559. Tree Sparrow. *Spizella monticola* (Gmel.). Winter.
 560. Clipping Sparrow. *Spizella socialis* (Wils.). Breeding.
 563. Field Sparrow. *Spizella pusilla* (Wils.). The entire year, breed-
 ing.
 567. Junco. Snowbird. *Junco hyemalis* (Linn.). Winter.

581. Song Sparrow. *Melospiza fasciata* (Gmel. The entire year, breeding.
584. Swamp Sparrow. *Melospiza georgiana* (Lath.). Once breeding.
585. Fox Sparrow. *Passerella iliaca* (Merr.). Autumn and spring.
587. Towhee. *Pipilo erythrophthalmus* (Linn.). Breeding.
595. Rose-breasted Grosbeak. *Zamelodia ludoviciana* (Linn.). Breeding.
598. Indigo Bunting. *Cyanospiza cyanea* (Linn.). Summer.
608. Scarlet Tanager. *Piranga erythromelas* Vieill. Breeding.
611. Purple Martin. *Progne subis* (Linn.). Autumn.
613. Barn Swallow. *Hirundo erythrogastra* (Bodd.). Summer.
614. Tree Swallow. *Tachycineta bicolor* (Vieill.). Summer.
616. Bank Swallow. *Clivicola riparia* (Linn.). Autumn.
619. Cedar Waxwing. *Ampelis cedrorum* (Vieill.). Breeding.
621. Northern Shrike. *Lanius borealis* Vieill. Winter.
- 622a. White-rumped Shrike. *Lanius ludovicianus excubitorides* (Swains.). Only once reported.
624. Red-eyed Vireo. *Vireo olivaceus* (Linn.). Breeding.
627. Warbling Vireo. *Vireo gilvus* (Vieill.). Spring and autumn.
628. Yellow-throated Vireo. *Vireo flavifrons* Vieill. Breeding.
629. Blue-headed Vireo. *Vireo Solitarius* (Wils.). Summer.
631. White-eyed Vireo. *Vireo noveboracensis* (Gmel.). Breeding.
636. Black and White Warbler. *Mniotilta varia* (Linn.). Summer. Breeding.
648. Northern Parula Warbler. *Compsothlypis americana* usnæ Brewster. Migrant.
652. Yellow Warbler. *Dendroica æstiva* (Gmel.). Breeding.
655. Myrtle Warbler. *Dendroica coronata* (Linn.). Winter resident and migrant.
657. Magnolia Warbler. *Dendroica maculosa* (Gmel.). Migrant.
659. Chestnut-sided Warbler. *Dendroica pennsylvanica* (Linn.) Spring and summer.
661. Black-poll Warbler. *Dendroica striata* (Forst.) Autumn and spring.
662. Blackburnian Warbler. *Dendroica blackburniæ* (Gmel.)
667. Black-throated Green Warbler. *Dendroica virens* (Gmel.). Spring, summer, and autumn.
671. Pine Warbler. *Dendroica vigosii* (Aud.). Common migrant.
- 672a. Yellow Palm Warbler. *Dendroica palmarum hypochrysea* Ridgew. Migrant.
673. Prairie Warbler. *Dendroica discolor* (Vieill.). Spring, summer, and autumn.
674. Oven-bird. *Seiurus aurocapillus* (Linn.) Spring, summer, and autumn.
675. Water Thrush. *Seiurus noveboracensis* (Gmel.). Rare migrant.
681. Maryland Yellowthroat. (*Geothlypis trichas* (Linn.). Breeding.
683. Yellow-breasted Chat. *Icteria virens* (Linn.). Rare, summer.
686. Canadian Warbler. *Wilsonia canadensis* (Linn.). Rare migrant.
687. American Redstart. *Setophaga ruticilla* (Linn.). Breeding.
703. Mockingbird. *Mimus polyglottos* (Linn.). Reported in October, 1896.



CAUNOUNICUS BRIDGE. ROGER WILLIAMS PARK.

- 704. Catbird. *Galeoscoptes carolinensis* (Linn.) Breeding.
- 705. Brown Thrasher. *Harporhynchus rufus* (Linn.). Breeding.
- 726. Brown Creeper. *Certhia familiaris fusca* (Barton). Migrant and winter resident.
- 727. White-breasted Nuthatch. *Sitta carolinensis* Lath. Migrant, winter resident, rarely breeding.
- 728. Red-breasted Nuthatch. *Sitta canadensis* Linn. Autumn, winter, spring.
- 735. Chickadee. *Parus atricapillus* (Linn.). Autumn, winter, spring, rarely breeding.
- 748. Golden-crowned Kinglet. *Regulus satrapa* Licht. Migrant, and winter resident.
- 755. Wood Thrush. *Hylocichla mustelinus* Gmel. Breeding.
- 756. Wilson's Thrush. *Hylocichla fuscescens* Steph. Summer.
- 758a. Olive-backed Thrush. *Hylocichla ustulatus swainsonii* (Cab.).
- 759b. Hermit Thrush. *Hylocichla aonalaschkee pallasii* (Cab.). Occasional migrant.
- 761. American Robin. *Merula migratoria* (Linn.). Breeding.
- 766. Bluebird. *Sialia sialis* (Linn.). Breeding.

MAMMALS.

This list follows the system of Bulletin No. 38, Vol. 8, October, 1900, New York State Museum. "Key to the Land Mammals of Northeastern North America," by Gerritt S. Miller, Jr.

- 9. Southeastern Red Squirrel. *Sciurus hudsonicus loquax* Bangs.
- 10. Northeastern Gray Squirrel. *Sciurus carolinensis leucotis* Gapper.
- 12. Northeastern Chipmunk. *Tamias striatus lysteri* (Richardson.)
- 16. Canadian Flying Squirrel. *Sciuropterus sabrinus macrotis* Mearns.
- 18. House Mouse. *Mus musculus* L.
- 20. House Rat. *Mus decumanus* Pallas.
- 24. Deer Mouse. *Peromyscus leucopus* (Raf.)
- 32. Northeastern Muskrat. *Fiber zibethicus* (L.).
- 48. Northern Meadow Jumping Mouse. *Zapus hudsonius hudsonius* (Zimmerman.).
- 54. Northeastern Cottontail. *Lepus floridanus transitionalis* Bangs.
- 69. Red Fox. *Vulpes fulvus* (Demarset.).
- 79. Southeastern Mink. *Putorius vison leutrocephalus* (Harlan.).
- 83. Skunk. *Mephitis mephitis* (Shaw.).
- 89. Star-nosed Mole. *Condylura cristata* (L.).
- 99. Short-tail Shrew. *Blarina brevicauda* (Gray.).
- 99. Red Bat. *Lasiurus borealis borealis* (Muller.).

INVENTORY OF PROPERTY AT ROGER WILLIAMS PARK, 1903.

ANIMALS.

8 horses	\$800 00
22 ponies	1,700 00
2 deer	100 00
2 spotted India deer	200 00
30 prairie dogs	60 00
9 pea fowl	45 00
13 wild geese	26 00
111 ducks	40 00
7 swans	210 00
12 raccoons	48 00
155 South Down sheep	775 00
25 rabbits	10 00
27 China geese	54 00
2 hyenas	200 00
1 black leopard	300 00
1 spotted leopard	300 00
2 pumas	200 00
5 foxes	10 00
1 black Pekin bull	100 00
11 sacred cattle	825 00
7 monkeys	70 00
4 pheasants	40 00
15 bantams	4 50
1 crow	2 00
2 ant eaters	20 00
1 cockatoo	10 00
2 cows	120 00
2 heifers	100 00
2 dogs	35 00
1 coyote	10 00
1 hen hawk	5 00
30 pigeons	4 50
6 alligators	6 00
1 turtle dove	1 00
5 Guinea hens	2 50
1 parrot	10 00
6 Guinea pigs	10 00

SETTEES.

4 rustic settees, Roger Williams Park	\$4 00
300 iron settees, " " "	918 00
67 iron settees, " " "	268 00
39 settees, Hayward Park	156 00
20 " Prospect Terrace	80 00
45 " Tockwotton Park	180 00
45 " Dexter Training Field	180 00

12	settees, Franklin Park	\$48 00
10	“ Washington Park	40 00
4	“ Roger Williams Square	16 00
12	“ Hopkins Park	48 00

HOSE.

900	feet $\frac{3}{4}$ -inch rubber hose	\$70 00
350	feet rubber hose, Tockwotton Park	20 00
700	feet rubber hose, Davis Park	56 00
200	feet rubber hose, City Hall Park	20 00
2	hose reducers, Roger Williams Park	2 00

HARNESSES, WAGONS, ETC.

4	tip carts	\$75 00
2	watering carts	550 00
4	cart harnesses	40 00
1	Pond harness	5 00
2	lead, 1 double, and 6 single pony harnesses	105 00
3	pairs double harnesses	125 00
2	business harnesses	75 00
2	pony poles	20 00
1	jumper sleigh	6 00
3	hand carts	20 00
1	road roller	25 00
1	express wagon	25 00
1	lumber wagon	20 00
5	pony wagons	190 00
4	dog carts	100 00
1	set horse lawn boots	4 00
1	sleigh	40 00
1	lumber reach	70 00
1	top buggy	75 00
1	Stanhope buggy	250 00
1	open buggy	50 00
1	two-horse wagon	300 00
1	pony sleigh	20 00
	Blankets, robes, halters, brushes, etc.	108 00

ICE TOOLS, ETC.

12	snow scrapers	\$100 00
3	ice planers	350 00
2	ice hooks	50
1	skate grinding machine	50 00
3	pairs ice tongs	3 00
1	ice auger	2 50
4	snow ploughs	60 00
1	ice chisel	2 00
120	pairs skates	100 00
28	ice chairs	84 00

30 snow shovels	\$5 00
2 skating signals	4 00
Skate straps, trimmings, rivets.....	10 00

TOOLS.

2 horse lawn mowers	\$100 00
1 one-horse mowing machine.....	30 00
1 two-horse mowing machine	10 00
2 harrows	15 00
6 lawn sprinklers	12 00
1 seine	10 00
1 paving hammer	1 50
1 saw clamp	50
2 vise	10 00
2 monkey, 2 cart, and 2 pipe wrenches.....	5 00
1 grindstone	10 00
1 three-horse power engine.....	100 00
1 foot lathe	8 00
1 vegetable cutter	8 00
1 jack screw	4 00
1 cow spraying pump	1 50
1 hay knife	1 00
2 spraying pumps and fittings	100 00
1 hydrant head	5 00
12 vault tubs	12 00
10 hand scrapers	9 00
1 gravel screen	2 00
1 step ladder	5 00
490 grass guards	98 00
1 stump puller and fixtures	40 00
8 lawn mowers	32 00
8 scythes and snaths	9 60
9 iron rakes	2 70
3 steak knives and steel.....	3 00
1 pair snip shears.....	2 00
1 pair hedge shears	2 00
1 pair shears	1 00
4 pairs sheep shears	3 20
1 pair pruning shears	2 00
4 pairs horse clippers	5 00
15 hay forks	3 75
1 horse rake	20 00
1 stone drag	10 00
3 four-foot drills	6 00
2 wagon jacks	3 00
1 hay cutter	3 00
3 branding irons	3 00
2 post hole spoons	1 00
1 fertilizer spreader	25 00
4 wheel weeders	6 00



BLACKSTONE PARK, SEEKONK RIVER ROAD.

12 scoop shovels	\$10 20
2 sidewalk scrapers	60
1 cleaver	1 00
1 saw	15
7 tool boxes	45 00
1 hay tedder	35 00
1 steam road roller	2,400 00
1 steam boiler and fittings	150 00
1 cultivator	4 00
2 catch basin tops	8 00
3 plows	24 00
2 scoop scrapers	10 00
2 watering troughs	15 00
72 shovels	36 00
50 pickaxes	7 50
30 grub hoes	9 00
10 hay rakes	4 00
4 spades	3 00
2 adze	3 00
1 water wrench	5 00
1 pounder	3 50
1 wood saw	1 50
3 bush scythes	2 25
26 spading forks	10 40
2 adze	3 00
11 manure forks	10 00
4 turf cutters	3 00
1 garden roller	15 00
2 hose wrenches	2 00
1 crosscut saw	2 25
80 mattocks	16 00
8 iron bars	8 00
4 hand saws	4 00
7 chains	14 00
2 bear chains	1 50
5 eveners	6 25
10 whiffletrees	12 50
7 hoes	2 10
1 post hole digger	1 00
1 hand vise	50
2 sledges	1 50
5 wheelbarrows	10 00
1 bush hook	75
4 iron wedges	2 00
lot small tools	10 00

MISCELLANEOUS.

Boat house and office furniture.....	\$1,750 00
Casino furniture and draperies.....	4,275 00
Furniture at Retsey Williams Cottage.....	500 00

50 tons of hay	\$750 00
2 cement stools	3 00
10 swings and frames	100 00
66 boats and oars.....	2,660 00
5 canoes	100 00
2 steam launches	1,500 00
12 boat cushions	24 00
3 baskets	3 00
2 chairs and 1 clock	35 00
400 brass checks	15 00
24 park music stands	50 00
4 water barrels	2 00
2 one-gallon oil cans	50
6 fire extinguishers	75 00
1 set of scales	9 00
1 cash register	5 00
2 parrot stands	6 00
6 coal hods	1 50
10 brooms	2 50
1 head light	30 00
1 pony awning	12 00
41 rubbish boxes	41 00
10 tables	12 50
1 stencil plate	1 00
2 copper boilers	10 00
12 wooden and iron pails	2 40
3 watering pots	3 00
150 signs	60 00
1 band stand	250 00
1 water motor	50 00
4 ladders	12 00
7 vases	18 00
2 barrels and truck	8 00
1 diamond glass cutter	5 00
8 ash cans	20 00
69 storm sash	175 00
23 padlocks	15 00
5 blocks and falls	90 00
1 flag	25 00
30 lanterns and lamps	37 50
1 gasoline lamp	1 00
1 milk pail and four cans.....	5 50
4 drinking pans	1 00
4 stoves and pipe	10 00
Set of letters and figures	1 00
1 fountain	50 00
1300 fertilizer bags	80 00
Drain pipe	15 00
5 push brooms	2 50
4 window awnings	8 00
Storm porches and fountain covers.....	25 00

1 oil tank	\$5 00
1 rifle	15 00
1 shotgun	20 00
Nails	10 00
Paints, oils, brushes, etc.....	10 00

PARK MUSEUM.

Mounted mammals and skeletons.....	\$2,616 25
Mounted birds	2,903 80
Mammal and bird skins	386 35
Eggs and insects	327 45
Shells, corals, and sponges	1,706 65
Reptiles and fishes	97 00
Minerals and fossils	2,283 60
Ethnological material	2,161 20
Botanical specimens	16 95
Coins and medals	12 00
Books	963 14
5 framed portraits	90 00
1 oil picture	25 00
1 plaster statue and pedestal	125 00
13 mahogany cases	3,989 25
1 walnut case	15 00
1 walnut and mahogany case of 36 drawers	25 00
1 oak library case	95 00
6 oak library drawers and cards.....	30 00
Oak desk and chair	99 00
Oak settees and chairs	500 00
6 chairs	3 50
Insect boxes and cases	44 00
Insect trays and tablets	15 00
Paper trays	25 00
Pine and paper trays	3 00
Glass shades	4 50
Bottles and jars	45 00
Table and horses	2 00
Umbrella stand	10 00
2 step ladders	10 00
2 storage cans of tin	10 00
Rubber mats	25 00
Fibre mats	2 00
Set of Smith's markers	4 00
Oil stove and heater	7 00
Bellows	1 00
1 kettle	1 00
Chemicals	3 00
Pails	2 00
1 snow and 1 iron shovel	1 25
1 vise	5 00
1 wheelbarrow	1 00

1 rake	\$ 25
1 axe	50
Stock and bits	1 60
1 iron square	50
Saw, plane, chisel, hammer, hatchet, etc.	5 75
Mop pail and wringer	2 00

DAVIS PARK.

700 feet of hose	\$49 00
1 lawn mower	7 50
3 grass hooks	25
1 whetstone	10
2 oil cups	25
2 scythe sticks and 4 scythes	2 00
1 wooden rake	20
4 iron rakes	1 25
2 manure forks	50
1 hay fork	35
10 lanterns	3 00
8 shovels	2 00
3 street hoes	60
1 edging knife	25
2 pails	60
1 axe, 1 hammer and 1 saw	1 35
1 basket	25
1 wheelbarrow	1 00
5 picks	3 75
2 snow shovels	50
1 step ladder	3 00
48 settees	192 00
5 brooms	1 50
1 dust pan and brush	1 00
1 grindstone and frame	3 00
32 feet of drain pipe	20 00
2 hydrant wrenches	1 00
2 reducers	2 00
1 hand cart	5 00
28 grass guards	8 40
4 mattocks	3 00
2 iron bars	2 00
1 one-gallon oil can	50

CITY HALL PARK.

200 feet of hose	\$20 00
3 rubbish boxes	3 00
2 shovels	1 50
1 hoe and 1 iron rake	2 00
1 hand lawn mower	10 00
1 spading fork	75



BROOK FLOWING THROUGH DAVIS PARK.

1 sickle, oil cup, and 1 stone.....	\$ 50
1 trowel, 1 pick and 1 axe	1 50
2 pails	40
1 hay rake	40
1 turf cutter	75
1 wheelbarrow	2 00
1 manure fork	75
1 fountain cover	125 00

RECAPITULATION.

Roger Williams Park	\$46,937 79
Davis Park	317 10
City Hall Park	168 55
Total	<u>\$47,423 44</u>

Respectfully,

FENNER H. PECKHAM,
 R. H. I. GODDARD,
 WILLIAM A. WALTON.

1904.]

CITY DOCUMENT.

[No. 12.]

ESTIMATES
OF THE
RECEIPTS AND EXPENDITURES
OF THE
CITY OF PROVIDENCE,
FOR THE
FINANCIAL YEAR ENDING SEPTEMBER 30,
1905.

REPORTED BY THE CITY AUDITOR, MARCH 14, 1904.



The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
63 Washington Street.
1904.

EXTRACTS FROM CHAPTER 12, OF THE ORDINANCE IN RELATION TO
FINANCES.

SECTION 42. The city auditor shall annually, on or before the third Monday in March, present to the city council an estimate, in print, of the amount of money necessary to be raised during the succeeding fiscal year, under the respective heads of appropriations, together with an estimate of the receipts from all other sources than taxes. In order to aid the city auditor in making such estimates, the board of aldermen, having charge of the Dexter Asylum and the poor department, the health department, the public bridge department, the several standing committees of the city council, and all commissions, shall furnish annually, on or before the first Monday in March, such detailed estimates of the amounts required for their several departments as may be required of them by the city auditor; and the heads of the several departments shall also furnish to the several standing committees of the city council such estimates as may be required of them by such committees, and all estimates furnished to the city auditor shall accompany his estimates presented to the city council.

SECTION 43. The city auditor shall submit to the committee on finance, for their approval or amendment, the annual estimates of the several committees, commissions and heads of departments; and the annual estimate of the city auditor of the amount of money necessary to be raised by taxation, presented to the city council in accordance with the terms of section forty-two of this chapter, shall be based upon the estimates of the various committees, commissions and heads of departments, as amended or approved by the committee on finance.

CITY AUDITOR'S OFFICE, CITY HALL,
PROVIDENCE, R. I., March 14, 1904.

TO THE HONORABLE THE CITY COUNCIL:

In compliance with the ordinance in relation to finances, the undersigned submits the following estimates of the receipts and expenses of the City of Providence for the financial year beginning on the first day of October, 1904, and ending on the 30th day of September, 1905.

The estimates of expenditures, as approved by the joint standing committee on finance, aggregate \$4,315,731.66. The valuation of the ratable estate for the year 1903 was \$200,668,540.00. Assuming for the purpose of this estimate \$202,000,000.00 as the taxable valuation for the current year, the rate per \$100.00 required to meet the estimates as approved and printed in this report, is shown by the following, viz:

CLASSIFICATION.	AMOUNT.	RATE PER \$100.00
Sinking funds.....	\$255,110 00	
Less sewer assessments to be applied to the payment of sinking funds for sewer loans..	49,858 17	
	\$205,251 83	10½ cents.
State tax.....	311,441 66	15½ cents.
Interest on city debt.....	716,680 00	35½ cents.
General expenses.....	\$3,032,500 00	
Less estimated receipts other than taxes.....	945,068 00	
	2,087,442 00	103½ cents.
To be raised by taxation.....	\$3,320,815 49	\$1.65

The estimated expenditures, as approved or amended by the committee on finance, are \$230,163.63 less than the estimates submitted by the city auditor and the various departments.

A detailed statement of the estimated receipts and expenditures; a comparative table of expenditures, appropriations and estimates; and the estimates of the several departments and officials, are submitted herewith.

Respectfully,

PHILIP S. CHASE,
City Auditor.

RECEIPTS.

AN ESTIMATE OF THE RECEIPTS OF THE CITY OF PROVIDENCE FROM THE VARIOUS SOURCES OTHER THAN FROM TAXES FOR THE FISCAL YEAR ENDING SEPTEMBER 30, 1906, APPLICABLE TO THE ORDINARY EXPENSES OF THE CITY.

<i>Fire Department</i> — From sale of old material, etc.....	\$108 00	
<i>Interest</i> — From interest on taxes, deposits, etc.....	50,000 00	
<i>Licenses and Fees</i> — From hacks, wagons, trucks, exhibitions, junk dealers, billiard tables, commissions, etc.:		
Total.....	\$36,500 00	
Less amount to State of Rhode Island.....	5,500 00	
		31,000 00
<i>Liquor Licenses:</i>		
Total.....	\$242,000 00	
Less amount to State of Rhode Island....	60,300 00	
		181,700 00
<i>Miscellaneous</i> — From various sources, including franchises		181,000 00
<i>Police Department</i> — From fines and court fees in police court, fees of officers, etc.....		13,000 00
<i>Public Schools</i> — From tuition, poll taxes, dog licenses, etc.....	\$41,300 00	
From State of Rhode Island.....	31,700 00	
Appropriated by the General Laws of R. I. for the support of Public Schools.....	73,000 00	
<i>Public Works, Bridges</i> — From sale of material, etc.....		100 00
<i>Public Works, Lights</i> — From sale of old material, etc...		150 00
<i>Rents</i> — From buildings, lands, etc.....		6,000 00
<i>Streets and Sewers</i> — From opening streets and entering sewers.....		2,000 00
<i>Water Works</i> — From labor, material, etc...	\$30,000 00	
From water rents.....	635,000 00	
	\$665,000 00	
Less estimated excess over cost of management and interest, held for sinking fund.	185,000 00	
		480,000 00
		<u>\$945,068 00</u>

EXPENDITURES.

AN ESTIMATE OF THE AMOUNT OF MONEY WHICH WILL
BE REQUIRED TO DEFRAY THE EXPENSES OF THE CITY
OF PROVIDENCE FOR THE FISCAL YEAR ENDING SEPT.
30, 1905.

<i>Asylum Walls and Buildings</i> —For repairs of the asylum walls and buildings.....	\$2,000 00
<i>Auditing Department</i> —For salaries of the City Auditor and assistants, and all expenses of office.....	7,500 00
<i>City Clerk's Department</i> —For salaries of the City Clerk and assistants, and all expenses of office.....	8,000 00
<i>City Council</i> —For salaries of the aldermen and councilmen; expenses of all committees of the city council, or either branch thereof, and all expenses of the city council.....	20,000 00
<i>City Hall</i> —For salary of the City Sergeant, and for the care and maintenance of the City Hall, expenses of office, pay of employes and messenger service.....	26,000 00
<i>Clerk of Common Council and Clerk of Committees</i> —For salary of the clerk of the common council and clerk of committees, for assistance, and all expenses of office.....	4,600 00
<i>Contingencies</i> —For appropriations made by the city council, including public celebrations, and for such other authorized objects and claims as are not specified in this estimate.....	50,000 00
<i>Elections</i> —For salaries and office expenses of the Board of Canvassers and Registration, and all expenses attendant upon elections, including advertising, ballots, stationery and pay of district wardens, clerks and supervisors.....	24,000 00
<i>Executive Department</i> —For salaries of the Mayor, Mayor's clerk, and one messenger authorized by chapter 27 of the city ordinances, all expenses of office, and including the sum of five hundred dollars which the Mayor is authorized to expend.....	7,300 00
<i>Fire Department</i> —For salaries of the officers and members of the Fire Department, office expenses, rent of land for fire stations, expenses of the Fire Marshal, new apparatus, water, supplies and repairs of apparatus.....	372,000 00
Amount carried forward.....	\$521,400 00

Amount brought forward	\$521,400 00
<i>Harbor</i> — For salary and expenses of the Harbor Master, and for dredging the docks and harbor	10,000 00
<i>Health Department</i> — For salaries of the Superintendent of Health, his assistants, inspectors, and employes ; expenses of collecting and recording births, mar- riages, and deaths ; all hospital and quarantine ex- penses, medicines, and vaccinations; removal of swill and house offal from the city, and all expenses per- taining to the health of the city	60,000 00
<i>Inspector of Buildings</i> — For salaries of the Inspector of Buildings, assistant and clerk and all expenses of office.	4,300 00
<i>Inspector of Milk</i> — For salaries of the Inspector of Milk, and assistants, and all expenses of office	6,000 00
<i>Inspector of Plumbing</i> — For salaries of the Inspector of Plumbing, assistants and clerk, and all expenses of office	5,800 00
<i>Interest, viz. :</i>	
On the floating debt	30,000 00
On Davis estate loan due July 1, 1909	3,000 00
On fire and police loan due November 1, 1932	8,385 00
On highway loan due May 1, 1924	48,000 00
On highway loan due April 1, 1927	20,000 00
On highway loan due May 1, 1930	9,000 00
On highway loan due July 1, 1912	4,500 00
On Johnston Bonds, assumed	7,240 00
On Johnston Annexation loan due September 1, 1939	4,980 00
On park loan due March 1, 1922	20,000 00
On park loan due May 1, 1947	23,590 00
On public improvement loan due May 1, 1929	2,520 00
On public improvement loan due May 1, 1937	22,400 00
On school loan due July 1, 1911	12,000 00
On school loan due May 1, 1925	12,000 00
On school loan due April 1, 1927	20,000 00
On school loan due May 1, 1929	12,250 00
On school loan, proposed	8,750 00
On sewer loan due July 1, 1921	45,000 00
On sewer loan due March 1, 1922	20,000 00
On sewer loan due April 1, 1923	20,000 00
On sewer loan due May 1, 1925	32,000 00
On sewer loan due June 1, 1926	20,000 00
Amount carried forward	\$1,013,115 00

Amount brought forward.....	\$1,013,115 00
On sewer loan due April 1, 1927.....	12,000 00
On sewer loan due April 1, 1928.....	7,000 00
On sewer loan due May 1, 1929.....	7,500 00
On sewer loan due May 1, 1930.....	9,000 00
On sewer loan due May 1, 1931.....	9,000 00
On sewer loan due April 1, 1933.....	17,500 00
On water loan due July 1, 1906.....	77,700 00
On water loan due September 1, 1916.....	16,905 00
On water loan due April 1, 1923.....	32,680 00
On water loan due June 1, 1926.....	8,000 00
On water loan due April 1, 1927.....	10,000 00
On water refunding loan due May 1, 1930.....	79,980 00
On water loan, proposed.....	5,600 00
On Weybosset bridge loan due May 1, 1929.....	9,450 00
On bridge loan, proposed.....	8,750 00
<i>Law Department</i> —For salaries of the City Solicitor and assistants, and all expenses of the law department, including officers' and witness' fees.....	15,000 00
<i>Municipal Court</i> —For salaries of the Judge and Clerk of the municipal court and assistants, and all expenses of office.....	7,000 00
<i>Olneyville Free Library Association</i> —For aid of the Olneyville Free Library.....	1,000 00
<i>Police Department</i> —For salaries of the Board of Police Commissioners, secretary and clerk, officers, members and employes of the police department and all supplies, repairs of apparatus, and expenses of the department, and the salaries of the police justices and expenses of the police court.....	404,000 00
<i>Printing</i> —For the printing of city documents required by the city ordinances or by the city council, and the City Council Resolutions.....	6,000 00
<i>Providence Lying-In Hospital</i> —For the aid of the Providence Lying-In Hospital.....	5,000 00
<i>Providence Public Library</i> —For the aid of the Providence Public Library.....	20,000 00
<i>Public Buildings</i> —For repairs and maintenance of public buildings, including the salaries of the superintendent and clerk, pay of employes, rent of Pioneer Hall lot, so-called, and all expenses of office.....	100,000 00
Amount carried forward.....	\$1,882,180 00

Amount brought forward.....	\$1,882,180 00
<i>Public Parks</i> — For the care and maintenance of all public parks, excepting Roger Williams Park, salaries of the Superintendent of Parks, clerk of the park commissioners and all expenses of office, the receipts and in addition thereto.....	10,500 00
For maintenance and improvement of Roger Williams Park, the receipts from the new part, the income of the Anna H. Man Trust Fund, and in addition thereto.....	32,000 00
<i>Public Schools</i> — For the support of the public schools, including salaries of all officers, teachers and employees of the school department, the salary and expenses of the truant officer, and rent of Dexter Donation land for school purposes, the money received for poll taxes, dog licenses, tuition, sale of materials, and from the State for public education, estimated at \$73,000.00, and in addition thereto.....	663,000 00
<i>Public Works</i> — For construction, repair and maintenance of public bridges.....	25,000 00
For salaries of the City Engineer and assistants and all expenses of office.....	50,000 00
For building, cleaning and repairing highways.....	280,000 00
For care and maintenance of public lights.....	290,000 00
For salaries of the Commissioner of Public Works, secretary and office assistants, and all office expenses.....	21,000 00
For care and maintenance of sewers.....	125,000 00
For sidewalks and curbing.....	2,000 00
For managing the water works.....	250,000 00
<i>Record Commissioners</i> — For all expenses incident to collecting and printing the early records of the town of Providence.....	1,000 00
<i>Recorder of Deeds</i> — For salaries of the Recorder of Deeds and his assistants and all expenses of the office.....	8,000 00
<i>Relief Fund for Firemen and Policemen</i>	3,000 00
<i>Rhode Island Hospital</i> — Hospital service.....	\$30,000 00
Ambulance service....	5,000 00
<i>St. Joseph Hospital</i>	2,000 00
<i>Sinking Funds to Redeem Loans</i> —	
Davis estate loan due July 1, 1909.....	3,000 00
Fire and police loan due November 1, 1932.....	5,160 00
Highway loan due May 1, 1924.....	25,000 00
Highway loan due April 1, 1927.....	10,000 00
Highway loan due May 1, 1930.....	6,000 00
Amount carried forward.....	\$3,728,840 00

Amount brought forward	\$3,728,840 00
Highway loan due July 1, 1912.....	13,000 00
Johnston Bonds, assumed.....	7,800 00
Johnston Annexation loan due September 1, 1939...	2,200 00
Park loan due March 1, 1922.....	10,000 00
Park loan due May 1, 1947.....	5,750 00
Public improvement loan due May 1, 1929.....	1,700 00
Public improvement loan due May 1, 1937.....	8,200 00
School loan due July 1, 1911.....	13,800 00
School loan due May 1, 1925.....	5,000 00
School loan due April 1, 1927.....	10,000 00
School loan due May 1, 1929.....	7,000 00
School loan, proposed.....	5,000 00
Sewer loan due July 1, 1921.....	25,000 00
Sewer loan due March 1, 1922.....	10,000 00
Sewer loan due April 1, 1923.....	10,000 00
Sewer loan due May 1, 1925.....	15,000 00
Sewer loan due June 1, 1926.....	10,000 00
Sewer loan due April 1, 1927.....	6,000 00
Sewer loan due April 1, 1928.....	4,000 00
Sewer loan due May 1, 1929.....	5,000 00
Sewer loan due May 1, 1930.....	6,000 00
Sewer loan due May 1, 1931.....	6,000 00
Sewer loan due April 1, 1933.....	10,000 00
Weybosset Bridge loan due May 1, 1929.....	5,500 00
Bridge loan, proposed.....	5,000 00
<i>State Tax</i> —For the city's proportion of the State Tax...	311,441 66
<i>Sealer of Weights and Measures</i> —For salary of the City Sealer, also for his expenses as Superintendent of Street Signs and Numbers.....	3,000 00
<i>Support of the Poor</i> —For support of the poor, removal of paupers, burial of bodies, maintenance of the charity wood yard, salaries of the overseer of the poor and assistants, and expenses of office, the re- ceipts on account of the charity wood yard and for the support of the poor, and in addition thereto.....	20,000 00
<i>Tax Department</i> —For salaries of the Assessors of taxes and assistants, and all office expenses.....	20,500 00
<i>Treasury Department</i> —For salaries of the City Treasurer, the Deputy City Treasurer and assistants, and all office expenses, the receipts on account of cost of levy and expenses for the collection of unpaid taxes and sewer assessments, and in addition thereto.....	26,000 00
Total estimated expenditures for 1904-1905.....	\$4,315,731 66

STATEMENT OF EXPENDITURES,

For the fiscal year ending September 30, 1903; appropriations for the current fiscal year; estimates of expenditures for the year ending September 30, 1906, and said estimates as approved by the joint standing committee on finance.

TITLES OF ACCOUNTS.	Expenditures, 1902-1903.	Appropriations, 1903-1904.	Estimates of Departments and Officials, 1904-1905.	Estimates Approved by Finance Commit- tee, 1904-1905.
Asylum Walls and Buildings.	\$1,994 27	\$2,000 00	\$2,000 00	\$2,000 00
Auditing Department.	7,256 46	7,500 00	7,500 00	7,500 00
City Clerk's Department.	7,662 36	8,000 00	8,277 88	8,000 00
City Council.	19,994 91	21,000 00	20,000 00	20,000 00
City Hall.	26,489 32	25,000 00	29,578 39	26,000 00
Clerk of Common Council and Clerk of Committees.	4,518 78	4,600 00	4,782 00	4,600 00
Contingencies.	61,565 97	50,000 00	50,000 00	50,000 00
Elections.	24,232 68	24,000 00	25,260 00	24,000 00
Executive Department.	7,253 59	7,300 00	7,398 00	7,300 00
Fire Department.	360,000 00	a 372,000 00	375,868 80	372,000 00
Harbor.	5,408 30	15,000 00	10,000 00	10,000 00
Health Department.	53,497 85	b 70,000 00	65,000 00	60,000 00
Inspector of Buildings.	4,149 65	4,300 00	4,600 00	4,300 00
Inspector of Milk.	6,040 17	6,000 00	6,690 00	6,000 00
Inspector of Plumbing.	5,675 00	5,800 00	5,820 00	5,800 00
Interest.	26,135 94	40,000 00	30,000 00	30,000 00
Interest on Davis Estate Loan, due July 1, 1909.	3,000 00	3,000 00	3,000 00	3,000 00
Interest on Fire and Police Loan, due Nov. 1, 1902.	4,193 50	8,385 00	8,385 00	8,385 00
Interest on Highway Loan, due Jan. 1, 1912.	4,500 00	4,500 00	4,500 00	4,500 00
Interest on Highway Loan, due May 1, 1924.	48,000 00	48,000 00	48,000 00	48,000 00
Interest on Highway Loan, due April 1, 1927.	20,000 00	20,000 00	20,000 00	20,000 00
Interest on Highway Loan, due May 1, 1930.	9,000 00	9,000 00	9,000 00	9,000 00
Interest on Park Loan, due March 1, 1923.	20,000 00	20,000 00	20,000 00	20,000 00
Interest on Park Loan, due May 1, 1947.	23,590 00	23,590 00	23,590 00	23,590 00

Interest on Public Improvement Loan, due May 1, 1929.....	2,520 00	2,520 00	2,520 00	2,520 00
Interest on Public Improvement Loan, due May 1, 1937.....	22,400 00	22,400 00	22,400 00	22,400 00
Interest on School Loan, due July 1, 1911.....	12,000 00	12,000 00	12,000 00	12,000 00
Interest on School Loan, due May 1, 1925.....	12,000 00	12,000 00	12,000 00	12,000 00
Interest on School Loan, due April 1, 1927.....	20,000 00	20,000 00	20,000 00	20,000 00
Interest on School Loan, due May 1, 1929.....	12,250 00	12,250 00	12,250 00	12,250 00
Interest on School Loan, proposed.....	.....	4,375 00	8,750 00	8,750 00
Interest on Sewer Loan, due July 1, 1921.....	45,000 00	45,000 00	45,000 00	45,000 00
Interest on Sewer Loan, due March 1, 1922.....	20,000 00	20,000 00	20,000 00	20,000 00
Interest on Sewer Loan, due April 1, 1923.....	20,000 00	20,000 00	20,000 00	20,000 00
Interest on Sewer Loan, due May 1, 1925.....	32,000 00	32,000 00	32,000 00	32,000 00
Interest on Sewer Loan, due June 1, 1926.....	20,000 00	20,000 00	20,000 00	20,000 00
Interest on Sewer Loan, due April 1, 1927.....	12,000 00	12,000 00	12,000 00	12,000 00
Interest on Sewer Loan, due April 1, 1928.....	7,000 00	7,000 00	7,000 00	7,000 00
Interest on Sewer Loan, due May 1, 1929.....	7,500 00	7,500 00	7,500 00	7,500 00
Interest on Sewer Loan, due May 1, 1930.....	9,000 00	9,000 00	9,000 00	9,000 00
Interest on Sewer Loan, due May 1, 1931.....	9,000 00	9,000 00	9,000 00	9,000 00
Interest on Sewer Loan, due Nov. 1, 1933.....	.....	17,500 00	17,500 00	17,500 00
Interest on Water Loan, due July 1, 1906.....	77,700 00	77,700 00	77,700 00	77,700 00
Interest on Water Loan, due Sept. 1, 1916.....	16,905 00	16,905 00	16,905 00	16,905 00
Interest on Water Loan, due April 1, 1923.....	32,680 00	32,680 00	32,680 00	32,680 00
Interest on Water Loan, due June 1, 1928.....	8,000 00	8,000 00	8,000 00	8,000 00
Interest on Water Loan, due April 1, 1927.....	10,000 00	10,000 00	10,000 00	10,000 00
Interest on Water Refunding Loan, due May 1, 1930.....	79,980 00	79,980 00	79,980 00	79,980 00
Interest on Water Loan, proposed.....	.....	.....	5,600 00	5,600 00
Interest on Water Loan, proposed.....	.....	.....	9,450 00	9,450 00
Interest on Bridge Loan, proposed.....	.....	.....	8,750 00	8,750 00
Interest on Johnston Annexation Loan, due Sept. 1, 1939.....	4,980 00	4,980 00	4,980 00	4,980 00
Interest on Johnston Bonds, assumed.....	7,240 00	7,240 00	7,240 00	7,240 00
Law Department.....	14,947 89	14,000 00	17,950 00	15,000 00
Municipal Court.....	6,085 98	7,000 00	7,370 00	7,000 00
Oneyville Free Library Association.....	1,000 00	1,000 00	1,000 00	1,000 00
Police Department.....	389,999 73	c464,000 00	411,877 55	404,000 00
Printing.....	5,949 67	6,000 00	6,000 00	6,000 00
Providence Lying-In Hospital.....	2,000 00	.....	5,000 00	5,000 00

STATEMENT OF EXPENDITURES—Continued.

TITLES OF ACCOUNTS.	Expenditures, 1902-1903.	Appropriations, 1903-1904.	Estimates of Departments and Officials, 1904-1905.	Estimates Approved by Finance Commit- tee, 1904-1905.
Providence Public Library.....	\$20,000 00	\$20,000 00	\$20,000 00	\$20,000 00
Public Buildings.....	74,998 57	100,000 00	113,081 00	100,000 00
Public Parks—General Account.....	8,220 88	*10,500 00	12,550 00	*10,500 00
Public Parks—Roger Williams Park.....	40,042 56	*32,000 00	51,532 00	*32,000 00
Public Schools.....	688,880 76	*663,000 00	764,991 00	*663,000 00
Public Works—Bridges.....	27,942 04	25,000 00	40,119 00	25,000 00
Public Works—City Engineers's Department.....	47,577 31	50,000 00	50,000 00	50,000 00
Public Works—Highways.....	301,728 72	*280,000 00	322,975 00	*280,000 00
Public Works—Lights.....	288,214 58	290,000 00	290,525 00	290,000 00
Public Works—Office.....	22,674 75	22,000 00	21,035 00	21,000 00
Public Works—Sewer Maintenance.....	116,976 98	*125,000 00	134,370 00	*125,000 00
Public Works—Sidewalks and Curbing.....	19,476 55	*2,000 00	2,000 00	*2,000 00
Public Works—Water Works Maintenance.....	162,156 74	225,000 00	253,718 33	250,000 00
Record Commissioners.....	966 68	1,000 00	1,000 00	1,000 00
Recorder of Deeds.....	8,000 00	8,000 00	11,384 78	8,000 00
Relief Fund for Firemen and Policemen.....	2,096 88	2,006 88	3,000 00	3,000 00
Rhode Island Hospital.....	10,000 00	10,000 00	35,000 00	35,000 00
St. Joseph Hospital.....	.....	.....	2,000 00	2,000 00
Sinking Fund, Davis Estate Loan, due July 1, 1909.....	3,000 00	3,000 00	3,000 00	3,000 00
Sinking Fund, Fire and Police Loan, due Nov. 1, 1932.....	5,160 00	5,160 00	5,160 00	5,160 00
Sinking Fund, Highway Loan, due Jan. 1, 1912.....	13,000 00	13,000 00	13,000 00	13,000 00
Sinking Fund, Highway Loan, due May 1, 1924.....	25,000 00	25,000 00	25,000 00	25,000 00
Sinking Fund, Highway Loan, due April 1, 1927.....	10,000 00	10,000 00	10,000 00	10,000 00
Sinking Fund, Highway Loan, due May 1, 1930.....	6,000 00	6,000 00	6,000 00	6,000 00
Sinking Fund, Park Loan, due March 1, 1922.....	10,000 00	10,000 00	10,000 00	10,000 00
Sinking Fund, Park Loan, due May 1, 1947.....	5,750 00	5,750 00	5,750 00	* 5,750 00

ESTIMATES OF DEPARTMENTS.

CITY HALL, March 2, 1904.

TO THE JOINT STANDING COMMITTEE ON FINANCE:

Complying with the city ordinances I submit an estimate of the amount that will be required during the fiscal year ending September 30, 1905, estimates for which have not been furnished by other officials:

AUDITING DEPARTMENT.

Salary of Auditor.....	\$3,500 00
Salaries of assistants.....	3,600 00
Printing and binding.....	200 00
Stationery and supplies.....	100 00
Telephones.....	80 00
Miscellaneous.....	20 00
	<hr/>
	\$7,500 00

CITY COUNCIL.

Salaries of members of the council.....	\$17,000 00
Expenses of committees.....	1,000 00
Advertising.....	500 00
Printing binding and stationery.....	500 00
Layout of streets.....	1,000 00
	<hr/>
	\$20,000 00

CONTINGENCIES.

Water for drinking troughs.....	\$7,000 00
Listing, killing and burying dogs.....	3,000 00
Burial of deceased soldiers and sailors.....	900 00
Expert examination, finance department.....	500 00
Displaying flags and ringing bells.....	475 00
Office expenses, city gauger.....	150 00
Miscellaneous.....	375 00
Orders of the city council, executions of courts, settlements by committee on pending suits, etc.....	37,600 00
	<hr/>
	\$50,000 00

Interest on the several issues of bonds and on the floating debt.....	\$716,680 00
Olneyville Free Library Association.....	1,000 00
Printing.....	6,000 00
Providence Lying-In Hospital.....	5,000 00
Providence Public Library.....	20,000 00
Record Commissioners.....	1,000 00
Relief fund for firemen and policemen.....	3,000 00
Rhode Island Hospital.....	35,000 00
Sinking funds for the several issues of bonds other than water bonds.....	255,110 00
State tax.....	311,441 66
St. Joseph Hospital.....	2,000 00

PHILIP S. CHASE,

City Auditor.

Approved for the amounts named, by the Joint Standing Committee on Finance.

GEORGE W. PARKS,

Chairman.

IN BOARD OF ALDERMEN,
February 18, 1904.

RESOLVED, That the Board of Aldermen hereby approve and adopt the following amounts as the sums necessary for the maintenance of the following departments for the fiscal year ending September 30th, 1905, viz. :

Health Department.....	\$65,000 00
Poor Department.....	20,000 00
Asylum walls and buildings.....	2,000 00

WM. E. CLARKE,

City Clerk.

Estimated expenses of the Poor Department for the fiscal year ending September 30, 1905, are as follows :

Out door relief.....	\$8,500 00
Transportation.....	500 00
Charity Building.....	4 500 00
Charity Wood Yard.....	9,500 00
Burials.....	1,000 00

Amount carried forward..... \$24,000 00

Amount brought forward	\$24,000 00
Medical attendance and hospital expenses.....	1,200 00
Salary.....	2,000 00
Cash and miscellaneous expenses.....	800 00
	<hr/>
	\$28,000 00
Estimated receipts.....	8,000 00
	<hr/>
	\$20,000 00

Respectfully,

MATTHEW J. CUMMINGS,

Overseer of the Poor.

Estimated expenses of the Health Department for the fiscal year ending September 30, 1905 :

Salary of Superintendent of Health.....	\$2,000 00
Removal of swill.....	30,000 00
Board and treatment of persons afflicted with contagious diseases.....	15,000 00
Reporting and recording births, marriages and deaths...	5,000 00
Clerks and Inspectors.....	6,000 00
Vaccination expenses.....	2,000 00
Printing, stationery and supplies.....	1,000 00
Horse, wagon and ambulance expenses.....	1,500 00
Disinfection expenses.....	1,000 00
Fees of quarantine sentinel.....	250 00
Ascertaining and certifying as to cause of death.....	200 00
Car fares	150 00
Supplies for laboratory.....	50 00
Carriage hire.....	50 00
Rent of telephone.....	250 00
Miscellaneous.....	550 00
	<hr/>
Total.....	\$65,000 00

Respectfully submitted,

CHARLES V. CHAPIN,

Superintendent of Health.

Approved for \$2,000.00 for Asylum Walls and Buildings ; \$60,000.00 for Health Department ; and \$20,000.00 for support of the poor, by the Joint Standing Committee on Finance.

GEORGE W. PARKS,

Chairman.

CITY HALL, February 11, 1904.

COL. PHILIP S. CHASE, CITY AUDITOR:

DEAR SIR: The estimated expenses of the City Clerk's Department for the fiscal year ending September 30, 1905, are as follows, viz.:

Salary of City Clerk.....	\$3,500 00
Salaries of assistants.....	4,025 38
Printing and binding.....	390 00
Stationery and supplies.....	198 00
Rent of telephones.....	150 00
Expense of Surety Bonds.....	14 50
	<hr/>
	\$8,277 88
Estimated receipts.....	\$4,500 00

Very truly yours,

WM. E. CLARKE,

City Clerk.

Approved for \$8,000.00 by the Joint Standing Committee on Finance.

GEORGE W. PARKS,

Chairman.

CITY HALL, February 15, 1904.

PHILIP S. CHASE, Esq., CITY AUDITOR.

DEAR SIR: The estimated amount of money that will be required for the care and maintenance of the City Hall for the fiscal year ending September 30, 1905, is \$29,578.29 as per schedule enclosed.

Respectfully yours,

T. FREDERICK CHASE,

City Sergeant

SCHEDULE.

Salary of City Sergeant.....	\$2,000 00
Pay rolls, (add Telephone Operator).....	11,330 29
Fuel.....	2,600 00
Lights (there will be an increase).....	2,200 00
Water.....	1,700 00
Furnishings—and repairs on same.....	2,200 00
Carpenters', masons' and painters' work, etc.....	2,000 00
Plumbing, steam and gas pipe fitting and electrical work.....	1,600 00
Hardware, tools and supplies.....	600 00
Ice.....	265 00
Washing towels.....	200 00
	<hr/>
Amount carried forward.....	\$26,695 29

Amount brought forward.....	\$26,695 29
Awnings.....	175 00
Printing, binding and stationery.....	200 00
Rent of telephone.....	120 00
Carriage hire.....	100 00
Removing ashes.....	100 00
Removing snow from sidewalk and steps.....	65 30
Flags and flag pole.....	50 00
Cartage.....	25 00
Elevator repairs.....	25 00
Car fares.....	15 00
Inspecting boilers.....	8 00
	<hr/>
	\$27,578 29

NECESSARY WORK.

Renewing steam and hot air pipes and repairing.....	1,000 00
Painting and decorating.....	1,000 00
	<hr/>
	\$29,578 29

Approved for \$26,000.00 by the Joint Standing Committee on Finance.

GEORGE W. PARKS,
Chairman.

CITY HALL, PROVIDENCE, February 17, 1904.

COL. PHILIP S. CHASE, CITY AUDITOR, PROVIDENCE, R. I.

DEAR SIR: In compliance with your request the undersigned transmits the following estimate of the amount of money that will be required to defray the expenses of this department for the financial year ending September 30, 1905, viz.:

For salary of Clerk.....	\$3,300 00
For assistance in clerk's office.....	1,000 00
For printing and binding.....	200 00
For stationery and supplies.....	150 00
For rent of telephones.....	132 00
	<hr/>
Total.....	\$4,782 00

Very respectfully yours,

D. F. HAYDEN,
Clerk of the Common Council and of Committees.

Approved for \$4,600.00 by the Joint Standing Committee on Finance.

GEORGE W. PARKS,
Chairman.

PROVIDENCE, R. I., February 19, 1904.

PHILIP S. CHASE, Esq., CITY AUDITOR, PROVIDENCE, R. I.

DEAR SIR: In compliance with the city ordinances, as stated in your request of February 1, 1904, we furnish the following estimates of the amount of money that will be required by the Election department for the fiscal year ending September 30, 1905, and the receipts of the department for the same period:

Salaries Board of Canvassers and Registration.....	\$7,500 00
Clerical assistance to Board of Canvassers and Registration.....	3,000 00
Wardens, Clerks and Supervisors.....	3,600 00
New voting booths.....	1,500 00
Voting district expenses.....	2,600 00
Rent of voting places and land.....	1,500 00
Carriages.....	450 00
Printing and binding.....	3,900 00
Advertising.....	250 00
Office expenses.....	125 00
Rent of telephone.....	120 00
Lunches for clerks.....	65 00
Lunches for police.....	50 00
Special election.....	600 00
Total.....	\$25,260 00

ESTIMATED RECEIPTS.

Certified voting lists.....	\$300 00
Certificates of voters.....	15 00
	<hr/>
	\$315 00

Respectfully submitted,

SAMUEL WHITELEY,
CHAS. E. SMITH,
JOSEPH P. CANNING,

Board of Canvassers and Registration.

Approved for \$24,000.00 by the Joint Standing Committee on Finance.

GEORGE W. PARKS,

Chairman.

CITY HALL, March 1, 1904.

PHILIP S. CHASE, Esq., CITY AUDITOR, PROVIDENCE, R. I.

DEAR SIR: The following is an estimate of the amount of money which will be required by this department for the fiscal year ending September 30, 1905:

Mayor's salary.....	\$5,000 00
Mayor's appropriation.....	500 00
Mayor's clerk.....	1,000 00
Mayor's messenger.....	416 00
Printing, stationery, supplies.....	250 00
Rent of telephone.....	120 00
Care of clock.....	25 00
Carriage hire.....	15 00
Telegraph and express charges.....	10 00
	<hr/>
	\$7,336 00

I am, respectfully yours,

A. S. MILLER,

Mayor.

Approved for \$7,300.00 by Joint Standing Committee on Finance.

GEORGE W. PARKS,

Chairman.

PROVIDENCE, R. I., February 17, 1904.

COL. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR:— Herewith please find estimate, in detail, of the amount of money required for the support of the Fire Department, during the fiscal year ending September 30, 1905.

Yours truly,

IRA WINSOR,
WILLIAM ANDREWS,
JAMES DAVIS,

Board of Fire Commissioners.

SALARIES.

3 Commissioners, each \$800 per annum.....	\$2,400 00
1 Clerk.....	2,000 00
1 Chief Engineer.....	2,000 00
	<hr/>
Amount carried forward.....	\$6,400 00

Amount brought forward.....	\$6,400 00
1 Deputy Chief Engineer.....	1,500 00
3 Assistant Engineers, each at \$1,400 per annum.....	4,200 00
1 Superintendent of Fire Alarm.....	1,800 00
31 Foremen, each at \$3.50 per day.....	39,602 50
29 Assistant Foremen, each at \$3.15 per day.....	33,842 75
9 Enginemen, each at \$3.25 per day.....	10,676 25
181 Privates, each at \$3.00 per day.....	198,195 00
6 Privates, each at \$2.67 per day.....	5,847 30
1 Private, at \$2.00 per day.....	730 00
<hr/> 267 Men.....	<hr/> \$302,293 80

EXPENSES.

Water.....	\$31,000 00
Horse feed and bedding.....	13,500 00
Gas and Electric Lighting.....	3,600 00
Fuel.....	4,500 00
Fire Alarm Telegraph and Telephone Service.....	4,500 00
Repairing and altering apparatus.....	3,500 00
Horses.....	2,500 00
Horse shoeing.....	2,500 00
Equipments.....	1,000 00
Veterinary attendance.....	1,000 00
Extra horses.....	1,000 00
Furniture and bedding.....	1,000 00
Laundry work.....	850 00
Harness supplies and repairs.....	600 00
Ice at stations.....	275 00
Printing and stationery.....	200 00
Rent of land.....	50 00
Supplies and miscellaneous expenses.....	2,000 00
	<hr/> \$78,575 00

SUMMARY.

Salaries.....	\$302,293 80
Expenses.....	78,575 00
<hr/> Total.....	<hr/> \$375,868 80

Approved for \$372,000.00 by the Joint Standing Committee on Finance.

GEORGE W. PARKS,

Chairman.

CITY HALL, PROVIDENCE, February 23, 1904.

COL. PHILIP S. CHASE, CITY AUDITOR, PROVIDENCE, R. I.

DEAR SIR: In compliance with your request the Committee on Harbor authorize me to advise you that in the opinion of the Committee ten thousand (\$10,000) will be required to defray the expenses of dredging in Providence harbor, paying the salary and official expenses of the Harbor Master and maintaining the city launch during the financial year ending September 30, 1905.

Respectfully yours,

CHARLES SISSON,

Chairman Committee on Harbor.

Approved for \$10,000.00 by the Joint Standing Committee on Finance.

GEORGE W. PARKS,

Chairman.

CITY HALL, PROVIDENCE, R. I., March 2, 1904.

PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: Herewith please find estimate in detail of the amount of money required for the maintenance of the Inspector of Buildings department during the fiscal year ending September 30, 1905.

Salary of Inspector of Buildings.....	\$1,800 00
Salaries of assistant and clerk.....	2,132 00
Printing and binding.....	248 00
Stationery and supplies.....	300 00
Rent of telephone.....	120 00
Total.....	<u>\$4,600 00</u>

Respectfully submitted,

SPENCER B. HOPKINS,

Inspector of Buildings.

Approved for \$4,300.00 by the Joint Standing Committee on Finance.

GEORGE W. PARKS,

Chairman.

PROVIDENCE, March 1, 1904.

COL. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR:—The following is submitted as an estimate of the amount of money required for the maintenance of this department, for the fiscal year ending September 30, 1905:

Salary of the Inspector.....	\$2,000 00
Office assistance	1,000 00
Salaries of collectors of samples.....	1,560 00
Board of horse, shoeing and repairs.....	400 00
Carriage hire and car fares.....	100 00
Supplies, publications, etc.....	700 00
Expert analysis and Court attendance.....	200 00
Advertising.....	150 00
Printing and binding.....	100 00
Rent of telephone.....	60 00
Stationery.....	50 00
Plumbing and repairs.....	20 00
Miscellaneous.....	250 00
	<hr/>
	\$6,590 00

It is estimated that the amount required will be \$6,590.00.

Very respectfully submitted,

WALTER OSGOOD SCOTT,
Inspector of Milk.

Approved for \$6,000.00 by the Joint Standing Committee on Finance.

GEORGE W. PARKS,
Chairman.

PROVIDENCE, R. I., February 25, 1904.

COL. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: Herewith is submitted a schedule showing the amount of money, estimated, that will be required for the maintenance of this department, for the fiscal year ending September 30, 1905 :

Salary of Inspector of Plumbing.....	\$1,800 00
Salaries of assistants and clerks.....	2,975 00
Horse and wagon account.....	360 00
Car fares.....	275 00
Stationery and supplies.....	180 00
Rent of telephone.....	120 00
Printing and binding.....	110 00
	<hr/>
Total.....	\$5,820 00

Yours respectfully,

REUBEN S. BEMIS,
Inspector of Plumbing.

Approved for \$5,800.00 by the Joint Standing Committee on Finance.

GEORGE W. PARKS,
Chairman.

PROVIDENCE, February 29, 1904.

COL. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: The amount charged to legal expenses to be covered by the appropriation for the Law Department depends so largely upon contingencies, which cannot be foretold, that it is difficult to form an accurate estimate of the necessary expenses. As near as this department can estimate basing its judgment upon the pending claims and suits and the increased volume of the City's law business and the largely increasing number of claims against the City, the amount probably required for the year ending September 30, 1905, will approximate \$18,000.00, according to the estimate herewith enclosed.

Respectfully submitted,

FRANCIS COLWELL,

City Solicitor.

Approximate amount required for the department from October 1, 1904, to September 30, 1905, is as follows:

Executions (tax cases).....	\$350 00	
Tax writs of 1904.....	1,100 00	
Entry fee for writs in District Court.....	500 00	
		\$1,950 00
Witness and expert fees in trials of cases, including sheriff's fees.....		3,500 00
Typewriting and incidental expenses.....		1,500 00
		\$6,950 00
Salaries of City Solicitor and Assistants.....		11,000 00
Total.....		\$17,950 00

Approved for \$15,000.00 by the Joint Standing Committee on Finance.

GEORGE W. PARKS,

Chairman.

CITY HALL, March 2, 1904.

COL. PHILIP S. CHASE, CITY AUDITOR, PROVIDENCE, R. I.

DEAR SIR: In reply to your request to furnish your department with an estimate of the amount of money that will be required for the conduct of this office, for the fiscal year ending September 30, 1905, I would state as follows:

EXPENDITURES.

For the salary of the Judge of the Municipal Court.....	\$2,000 00
For the salary of the Clerk of the Municipal Court.....	1,700 00
For the salaries of assistants.....	2,400 00
Stationery and supplies.....	200 00
Rhode Island Society for Prevention of Cruelty to Children, Chapter 215 General Laws, amended by Chapter 475 Public Laws of Rhode Island, 1897.....	150 00
Rent of telephone.....	120 00
Rebinding and repairing old records.....	350 00
Binding new records and printing.....	250 00
New Typewriter, say.....	100 00
All other expenses.....	100 00

Total.....	\$7,370 00
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The estimated receipts for the office will be about	\$8,000 00
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Respectfully submitted,

EDWARD FIELD,

Clerk.

Approved for \$7,000.00 by the Joint Standing Committee on Finance.

GEORGE W. PARKS,

Chairman.

PROVIDENCE, R. I., February 23, 1904.

PHILIP S. CHASE, Esq., CITY AUDITOR.

SIR: In compliance with Section 42, Chapter 12 of the Revised Ordinances, I herewith submit a statement of the estimated expenditures of the Police Department for the fiscal year ending September 30, 1905. In presenting this statement I am directed by the Board to call attention to the fact that during the past two years the amount provided for the maintenance of the Police Department has been insufficient to enable the Board to employ as many patrolmen as the ordinances of the City provided for before the change of administration. When it is taken into account that the department must now take care of its own buildings; that an item of something like six thousand dollars is transferred from the appropriation to the pension fund on account of absences of officers, with other expenses for printing formerly paid by other departments, together with the salaries of the Board and its clerks, the amount available for the patrolling force is less than that provided when the affairs were administered by the Board of Aldermen.

The amount provided in the statement under the head of salaries contemplates an increase in the patrolling service. Petitions have been filed in this office asking for additional officers in different sections of the city but the Board was unable to grant such petitions because funds were not provided to meet expenses.

Following is a detailed statement :

Police Commissioners.....	\$9,000 00
Secretary.....	1,500 00
Clerk of Commissioners.....	1,000 00
Stenographer.....	469 28
Police Surgeon.....	1,200 00
Drill Master.....	400 00
Police Justices.....	2,000 00
Clerks.....	3,285 00
Superintendent of Hacks.....	1,186 25
Chief of Police.....	2,500 00
Deputy Chief.....	2,000 00

Detectives:

1 Captain.....	\$1,400 00	
5 detectives at \$3.75 per day.....	6,843 75	
5 detectives at \$3.00 per day.....	5,475 00	
2 detectives at \$2.75 per day.....	2,007 50	15,726 25
2 warrant officers at \$3.00 per day.....		2,190 00
1 signal service man at \$3.50 per day.....	1,277 50	
1 signal service man at \$3.00 per day.....	1,095 00	
1 signal service man at \$11.00 per week...	573 57	2,946 07
1 matron at \$11.50 per week.....	599 64	
1 matron at \$9.61 per week.....	501 09	1,100 73
7 captains at \$26.90 per week.....		9,818 48
8 lieutenants at \$3.25 per day.....		9,490 00
15 sergeants at \$3.13 per day.....		17,136 00
210 patrolmen at \$3.00 per day.....	229,950 00	
30 patrolmen at \$2.75 per day.....	30,112 50	
6 patrolmen at \$2.50 per day.....	5,475 00	
12 patrolmen at \$2.25 per day.....	9,855 00	275,392 50
8 superannuated at \$400 per year.....		3,200 00
14 patrol drivers at \$2.00 per day, with furlough.....		10,416 00
8 janitors.....		5,748 99
1 hostler.....		730 00
2 engineers.....		1,375 00
		\$379,810 55

GENERAL ACCOUNT.

Coal.....	\$4,500 00
Barn expenses (feed and utensils).....	4,000 00
Signal service and telephone lines	4,500 00
Repairs on buildings.....	5,000 00
Lighting (gas and electricity)	3,900 00
Office supplies.....	2,250 00
Water.....	900 00
Horse shoeing.....	850 00
Advertising.....	200 00
Horses.....	1,000 00
Food for prisoners.....	750 00
Laundry work.....	500 00
Wagons, repairs, etc.....	750 00
Warrant officers' expenses (car fares, etc.).....	450 00
Ice.....	225 00
Harnesses and repairs.....	400 00
Veterinary services and medicine.....	250 00
Cost of cases discontinued Sixth District Court.....	550 00
Board of Prisoners Providence County Jail.....	350 00
Wood.....	175 00
Removing ashes.....	250 00
Detective expenses.....	75 00
Telephone, telegraph messages, freight, express, etc....	40 00
Directories.....	52 00
Station supplies, bedding, etc.....	750 00
Furniture and repairs.....	300 00
Miscellaneous	500 00
Total.....	\$413,277 55

The estimated receipts of the department for the fiscal year ending September 30, 1905 are as follows:

From liquor licenses (deducting 1-4 paid to the State)...	\$180,750 00
Tavern and victualling house licenses.....	12,500 00
Bowling alleys.....	700 00
Intelligence office licenses.....	240 00
Billiard, pool tables, etc.	5,400 00
Pawnbrokers' licenses.....	1,500 00
Police constables with power.....	100 00
Police constables without power.....	90 00
Hawkers and peddler licenses.....	3,800 00
Exhibitions and dances.....	5,000 00
Amount carried forward.....	\$210,080 00

Amount brought forward.....	\$210,080 00
Junk licenses.....	1,750 00
Private detectives.....	25 00
Dog licenses.....	11,500 00
Fees on same.....	1,000 00
Second-hand stores, transfers and lodging houses licenses	125 00
Total.....	\$224,480 00

Respectfully submitted,

SAMUEL GEE,

Secretary.

Approved for \$404,000.00 by the Joint Standing Committee on Finance.

GEORGE W. PARKS,

Chairman.

CITY HALL, February, 27, 1904.

COL. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR:—I herewith submit an estimate of the amount that in my judgment will be required for this department, for the fiscal year ending September 30, 1905:

<i>School Houses</i> , carpenters' and painters' labor and stock, new fences, concreting, repairing plumbing, roofs, gutters and heating apparatus, 95 regular school buildings.	\$85,000 00
<i>Fire Stations</i> , carpenters' and painters' labor and materials, fences, concreting, repairing plumbing, roofs, gutters and heating apparatus, 26 stations.	11,500 00
<i>Miscellaneous Buildings</i> , carpenters' and painters' labor and materials, fences, concreting, repairing plumbing, roofs, gutters and heating apparatus, 11 buildings.....	4,450 00
<i>Stable Expenses</i> , repairing wagons, carriages, harnesses and board of 3 horses	1,500 00
<i>Pioneer Hall</i> , rent of Pioneer Hall lot.....	275 00
<i>Ashes and Cesspools</i> , removal of ashes, rubbish and contents of cesspools.....	3,000 00
<i>Telephones</i> , rent of telephones Superintendent's office and City Yard	185 00
<i>Bath Houses</i> , repairing and renovating two bath houses.	1,000 00
Amount carried forward.....	\$108,910 00

Amount brought forward.....	\$106,910 00
<i>Flag Poles</i> , repairs city flag poles, new halyards and painting.....	500 00
<i>Water and Gas</i> , for work shop, City Yard.....	20 00
Advertising.....	35 00
Printing and office supplies.....	125 00
Car fares carpenters' and painters', stamps, postals, surety bond.....	225 00
Salary Superintendent.....	2,200 00
Salary Clerk.....	1,300 00
Salary of foreman and teamer	1,716 00
	<hr/>
	\$113,031 00

Respectfully submitted,

JEREMIAH H. HALL,

Chairman Committee on City Property.

Approved for \$100,000.00 by the Joint Standing Committee on Finance.

GEORGE W. PARKS,

Chairman.

PROVIDENCE, R. I., March 2d, 1904.

PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: The following is an estimate of the amount of money that will be required by the Park Department for the fiscal year ending September 30th, 1905, also an estimate of the receipts for same period.

PUBLIC PARKS, GENERAL ACCOUNT.

Salary of Superintendent of Parks.....	\$2,000 00
Salary of Assistant to Superintendent	626 00
Stationery, printing and supplies.....	200 00
Davis Park.....	2,500 00
City Hall.....	1,000 00
Hayward.....	600 00
Tockwotton.....	500 00
Dexter Training Field	400 00
Hopkins.....	100 00
Blackstone	100 00
Blackstone Boulevard Parkway	700 00
Abbott.....	200 00
Roger Williams Square	200 00
	<hr/>
Amount carried forward.....	\$9,126 00

Amount brought forward.....	\$9,126 00
Prospect Terrace	200 00
Franklin	75 00
Washington	75 00
Fenner	40 00
Columbus	34 00
Eddy Playground, for athletic apparatus and grading....	1,500 00
Neutaconkanut Hill	1,500 00
Total	\$12,550 00

ROGER WILLIAMS PARK.

Care and improvement of grounds	\$20,000 00
Menagerie, feed for and care of animals	4,000 00
Buildings, repairs and furnishings	5,000 00
Boats and launches, care and repairs	4,500 00
Museum, salary of Curator, etc.	2,650 00
Stable, feed for and care of animals	3,000 00
Water	1,050 00
Ponies, pony wagons, care, feed, etc.	1,800 00
Horses, wagons, harnesses, etc.	1,000 00
Rent of telephone	132 00
For new animals	2,000 00
Insurance	300 00
For Memorial to the late R. H. Deming, now under contract.....	5,000 00
Fuel	1,100 00
Total.....	\$51,532 00

Estimated amount of receipts including income from Man fund,
\$14,500.00.

Respectfully,

JOSEPH D. FITTS,
Superintendent of Parks.

Approved by Commissioners of Parks.

F. H. PECKHAM,
President.

Approved for \$10,500.00 for General Account and \$32,000.00 for
Roger Williams Park by the Joint Standing Committee on Finance.

GEORGE W. PARKS,
Chairman.

PROVIDENCE, R. I., March 1, 1904.

COL. PHILIP S. CHASE, CITY AUDITOR, PROVIDENCE, R. I.

DEAR SIR: The School Committee presents the following estimates of the amount of money which will be required for the support of the public schools for the fiscal year ending September 30, 1905:

Salaries	\$528,599 50
Fuel	40,000 00
Evening Schools	39,000 00
Books, supplies and Apparatus	50,000 00
Water	4,000 00
Lights	3,500 00
Tuition: Normal School, School of Design, Cranston ..	10,300 00
Miscellaneous Items: Printing, rents, carting supplies, postage, transportation, telephones, etc.	12,161 50
Contingencies	5,000 00
School Houses: Janitors, Furniture and Repairs	70,430 00
St. Louis Exposition	2,000 00
Total	<u>\$764,991 00</u>

Very respectfully,

HENRY B. ROSE,

Secretary.

Approved for \$663,000.00, in addition to certain receipts estimated at \$73,000.00, by the Joint Standing Committee on Finance.

GEORGE W. PARKS,

Chairman.

PROVIDENCE, R. I., February 12, 1904.

COL. PHILIP S. CHASE, CITY AUDITOR.

DEAR SIR: I submit herewith detail estimates of the amount of money that will be required by the several departments under the charge of the Commissioner of Public Works, for the fiscal year ending September 30, 1905, viz.:

PUBLIC WORKS — BRIDGES.

Point Street Bridge:	
Attending draw	\$4,000 00
Repairs	2,000 00
Red Bridge:	
Attending draw	2,200 00
Repairs	1,500 00
Amount carried forward	<u>\$9,700 00</u>

Amount brought forward.....	\$9,700 00
Washington Bridge:	
Attending draw.....	2,100 00
Repairs	2,500 00
Lumber, hardware, supplies, etc. (included in items for repairs).	
Tools.....	600 00
Horses, wagons, harnesses, and barn expenses.....	500 00
Rent of keeper's house, Washington Bridge.....	144 00
Sundries	800 00
Car fares.....	75 00
Fuel, light, etc., building at city yard.....	200 00
Repairs on other bridges.....	5,000 00
Branch Avenue Bridge, at Wanskuck, rebuilt.....	6,000 00
Branch Avenue Bridge over Moshassuck river.....	12,500 00
Total.....	\$40,119 00

PUBLIC WORKS — CITY ENGINEER'S DEPARTMENT.

Salary of City Engineer.....	\$4,500 00
Salaries of assistants and clerks.....	43,000 00
Car fares.....	950 00
Supplies, drawing material, etc.....	1,100 00
Instruments and repairs.....	300 00
Sundries.....	150 00
Total.....	\$50,000 00

PUBLIC WORKS — HIGHWAYS (MAINTENANCE).

Salary of Superintendent	\$1,800 00
Cleaning and watering streets.....	63,000 00
Repairs on unpaved streets.....	61,000 00
Crushed stone, material and labor.....	60,000 00
Repairs on paved streets.....	15,000 00
Horses, wagons, and harnesses.....	2,000 00
Blacksmith and wheelright shop	10,500 00
Steam rollers.....	6,500 00
Stone crushers, repairs.....	4,000 00
Tools, implements, etc.....	5,000 00
Labor on material.....	3,000 00
Removing snow.....	10,000 00
Paving and crosswalk stone.....	7,000 00
Building driveways.....	1,250 00
Barn expenses.....	11,000 00
Amount carried forward.....	\$261,050 00

Amount brought forward.....	\$261,050 00
Watchman at City Yard.....	625 00
Sundries.....	400 00
Office expenses.....	300 00
Repairs on buildings.....	200 00
Fencing.....	300 00
Car fares.....	100 00
Orders of the Board of Aldermen and City Council resolutions.....	60,000 00
Total.....	\$322,975 00

The above estimates includes Union Railroad Company's watering streets.

PUBLIC WORKS—OFFICE.

Salary of Commissioner of Public Works.....	\$5,000 00
Salary of Secretary.....	2,400 00
Salary of clerks.....	13,000 00
Office supplies.....	625 00
Rent of telephone.....	10 00
	\$21,035 00

PUBLIC WORKS—SEWER MAINTENANCE.

Salary of Superintendent and Inspectors.....	\$4,600 00
Cleaning sewers and basins.....	25,000 00
Ernest Street Station.....	16,500 00
Repairs on sewers and basins.....	15,000 00
Cleaning and repairing old drains.....	6,000 00
Tools.....	3,000 00
Horses, wagons, harnesses, etc.	1,800 00
Sundries.....	4,500 00
Barn expenses.....	1,800 00
Cleaning connections.....	300 00
Office expenses, City Yard.....	200 00
Repairs on gate houses.....	100 00
Rent of telephones.....	150 00
Water.....	900 00
Repairs on buildings.....	50 00
Car fares.....	20 00
Filling cisterns and pumping out cellars.....	50 00
Total, carried forward.....	\$79,770 00

Amount brought forward.....		\$79,770 00
Maintenance, Sewerage Precipitation:		
Chemicals.....	\$20,000 00	
Labor.....	25,000 00	
Power, light and fuel.....	3,000 00	
Supplies.....	5,000 00	
Repairs.....	1,300 00	
Sundries.....	800 00	
		<hr/>
		\$54,800 00
Total.....		<hr/>
		\$134,570 00

PUBLIC WORKS—WATER WORKS MAINTENANCE.

Pettaconset Pumping Station:

Fuel and supplies for machinery, including light....	\$20,000 00
Engineers and firemen.....	4,500 00
Pumping machinery and buildings for same.....	10,000 00
Superintendence.....	1,500 00
Sundries.....	4,000 00
Real estate and care of same.....	1,000 00
Sockanosset Reservoir, watchman, etc.....	1,200 00

Hope Pumping Station and Reservoir:

Engineers and firemen.....	3,000 00
Fuel and supplies for machinery, including light....	2,500 00
Pumping machinery and buildings for same.....	500 00
Watchman.....	850 00
Care of grounds.....	1,000 00
Sundries.....	1,200 00
Fruit Hill Reservoir, watchman, etc.....	2,500 00
Water meters, and setting and repairing same.....	22,000 00
Repairs on pipe line, etc.....	16,000 00
Salaries of inspectors.....	6,400 00
Town of Cranston, tax 1904.....	8,000 00
Superintendence of pipe line and service stops.....	3,500 00
Horses, wagons, and harness, etc.....	1,000 00
Rent of telephones.....	600 00
Expert service inspecting water pipes with reference to electrolysis.....	550 00
Town of North Providence, tax 1904.....	400 00
Car fares.....	400 00
Public drinking fountains and troughs.....	200 00
Town of Warwick, tax 1904.....	100 00
Town of Lincoln, tax 1904.....	55 00

Amount carried forward.....	<hr/>	\$112,955 00
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Amount brought forward.....	\$112,955 00
Inspection of Pawtuxet river.....	2,200 00
Barn expenses.....	2,600 00
Sundries.....	200 00
	<hr/>
	\$117,955 00
Laying new force main.....	70,863 33
Laying water pipes and service pipes.....	20,000 00
Cast iron water pipes and service pipes.....	27,000 00
Fire hydrants and special castings.....	10,000 00
Taps, stops and stop valves.....	4,500 00
Pig lead and tin.....	1,800 00
Wharf salaries and office expenses.....	200 00
Labor on and carting pipes.....	750 00
Tools.....	650 00
Patterns and repairs on pipe yard buildings.....	200 00
	<hr/>
Total.....	\$253,718 33

This estimate provides for an additional 42-inch force main to Sockanosset reservoir.

PUBLIC WORKS—LIGHTS.

1,900 electric arc lights.....	\$208,050 00
2,200 electric incandescent lights.....	52,800 00
900 Welsbach gas lights.....	27,000 00
Setting and removing gas lamp posts.....	600 00
Salaries.....	2,000 00
Sundries.....	75 00
	<hr/>
Total.....	\$290,525 00

Yours respectfully,

WALTER F. SLADE,

Commissioner.

Approved for \$25,000.00 for Bridges; \$50,000.00 for City Engineer's Department; \$280,000.00 for Highways; \$21,000.00 for Office; \$125,000.00 for Sewer Maintenance; \$250,000.00 for Water Maintenance; and \$290,000.00 for Lights, by the Joint Standing Committee on Finance.

GEORGE W. PARKS,

Chairman.

PROVIDENCE, R. I., February 29, 1904.

PHILIP S. CHASE, Esq., CITY AUDITOR.

DEAR SIR: Agreeably to your request I submit the following estimate of the amount of money that will be required for the proper conduct of this department for the fiscal year to end September 30, 1905, together with an estimate of receipts for the same period:

EXPENDITURES.

Salary of Recorder of Deeds.....	\$1,800 00
Salaries of assistants.....	5,945 29
Printing and binding.....	800 00
Restoring and preserving old records.....	650 00
Revising indexes.....	1,564 29
Stationery and supplies.....	500 00
Rent of telephones.....	125 20
Total.....	\$11,384 78
Receipts.....	\$8,500

Very respectfully,

EDWARD C. JOYCE,

Recorder of Deeds.

Approved for \$8,000.00 by the Joint Standing Committee on Finance.

GEORGE W. PARKS,

Chairman.

PROVIDENCE, R. I., February 15th, 1904.

PHILIP S. CHASE, CITY AUDITOR, CITY HALL.

DEAR SIR: Enclosed you will please find a detailed estimate of the amount of money that will be required by the Department of Street Signs and Numbers for the fiscal year ending September 30, 1905, also an estimate of the receipts for the same period.

Respectfully yours,

WM. H. COVELL,

Chairman.

ESTIMATE.

Salary of Sealer.....	\$2,000 00
Use of team for signs and numbers.....	300 00
New iron signs.....	100 00
Office supplies and tools.....	75 00
Rent of telephone.....	120 00
Numbers.....	100 00
Amount carried forward.....	\$2,695 00

Amount brought forward	\$2,695 00
Coal	50 00
Printing and binding	65 00
Water	17 00
Advertising	25 00
Surety bond	6 50
Gas	20 00
Care of office and furnace	52 00
Street signs and painting same	475 00
Sundries	94 50
Total	\$3,500 00
Estimated receipts for the same period	\$2,200 00

Approved for \$3,000.00 by the Joint Standing Committee on Finance.

GEORGE W. PARKS,

Chairman.

PROVIDENCE, R. I., February 25, 1904.

PHILIP S. CHASE, CITY AUDITOR:

DEAR SIR: In answer to your request of the first instant, I have the honor to report the following estimate of the expenses of this department for the year ending September 30, 1905:

Salaries of Assessors	\$9,000 00
Salaries of assistants	5,900 00
Expense of assessing poll tax	3,000 00
Additional assistance	900 00
Copies of Assessors' plats	500 00
Printing and binding	350 00
Carriage hire	250 00
Stationery and supplies	220 00
Telephone	120 00
Advertising	60 00
Car fares	50 00
Miscellaneous	150 00
	\$20,500 00

The receipts from the sale of lithographed copies of the Assessors' plats is estimated at \$150.

Very truly yours,

ARTHUR H. ARMINGTON,

Secretary.

Approved for \$20,500.00 by the Joint Standing Committee on Finance.

GEORGE W. PARKS,

Chairman.

PROVIDENCE, Feb. 2, 1904.

PHILIP S. CHASE, ESQ., CITY AUDITOR, PROVIDENCE, R. I.

DEAR SIR: As required by Section 42, Chapter 12, Revised Ordinances of 1899, I beg to say that I estimate the amount required for the City Treasury Department for the fiscal year ending September 30, 1905, to be \$26,000.00, in addition to all receipts on account of the cost of levy and expenses of the collection of unpaid real estate taxes and sewer assessments, and for the expenses of collection of unpaid poll taxes. I herewith enclose detailed estimates as requested by you.

I am, very respectfully yours,

WALTER L. CLARKE,

City Treasurer.

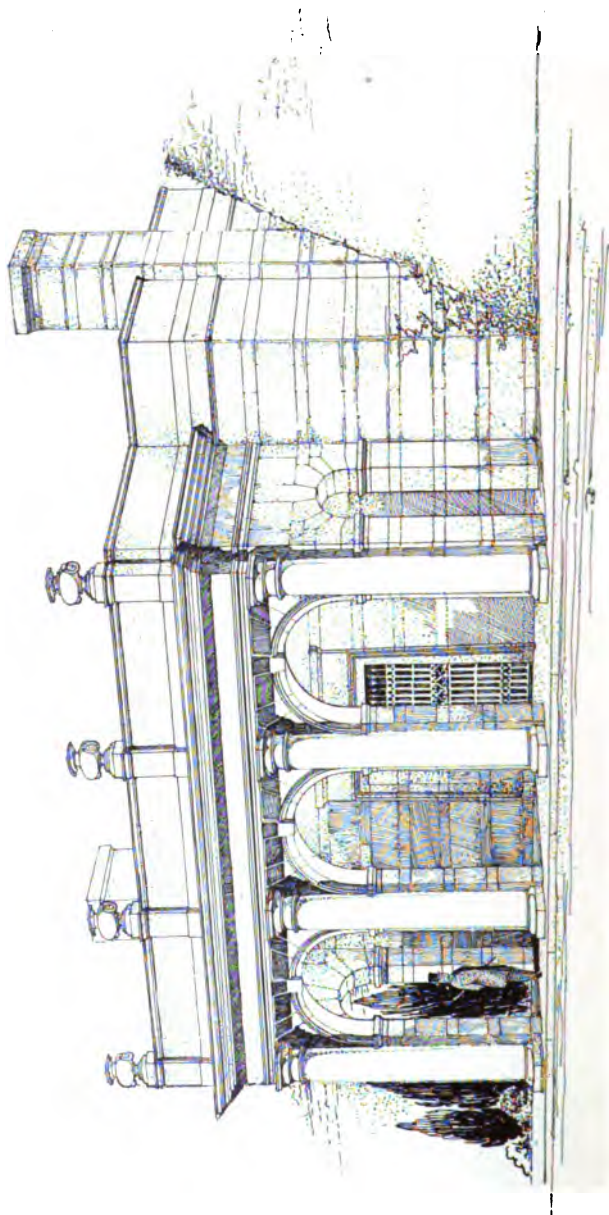
SCHEDULE.

Salary of City Treasurer.....	\$4,000 00
Salary of Deputy Treasurer.....	2,500 00
Salaries of assistants.....	11,000 00
Temporary clerical assistance.....	1,500 00
Poll tax expense.....	3,500 00
Examining titles, etc.....	2,500 00
Serving notices for unpaid taxes of 1903.....	1,500 00
Stationery and supplies.....	1,800 00
Paymaster's horse and carriage expenses.....	1,000 00
Advertising.....	1,000 00
Printing and binding.....	800 00
Printing bonds.....	1,500 00
Expense of surety bonds.....	200 00
Lunches.....	150 00
Carriage hire.....	100 00
Serving notices on unpaid sewer assessments.....	100 00
Auctioneer's expenses for sale of real estate for unpaid taxes and sewer assessments.....	100 00
Rent of telephone.....	120 00
Express, telegrams, telephone messages, etc.....	25 00
Rent of post office box.....	12 00
Traveling expenses.....	15 00
Total.....	\$33,423 00
Estimated receipts for fiscal year ending September 30, 1905.....	\$7,000 00

Approved for \$26,000.00 by the Joint Standing Committee on Finance.

GEORGE W. PARKS,

Chairman.



FRONT VIEW OF NEW RECEIVING TOMB.

1904.]

CITY DOCUMENT.

[No. 13.]

ANNUAL REPORT
OF THE
COMMISSIONERS
OF THE
NORTH BURIAL GROUND.

[Presented March 7, 1904.]



The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
63 Washington Street,
1904.

COMMISSIONERS OF THE NORTH BURIAL GROUND.

WILLIAM K. REYNOLDS, *Chairman.*

GEORGE L. PIERCE,

HENRY A. GRIMWOOD

LAWRENCE J. COFFEY, *Ex-officio.*

JAMES WARREN, JR., *Supt.*

RECEIVING ROOM OF NEW TOMB.



REPORT.

OFFICE OF THE
COMMISSIONERS OF THE NORTH BURIAL GROUND,
PROVIDENCE, R. I., Feb. 1, 1904.

TO THE HONORABLE THE CITY COUNCIL OF THE CITY OF
PROVIDENCE:

As required by the City Ordinances the Commissioners of the North Burial Ground present this their report of work performed, condition of grounds, receipts and expenditures for the year ending December 31, 1903.

The constantly increasing area of improved lots by filling in and grading of the many low tracts of land formerly used for storage and dumping purposes, of which there were a number of acres in extent, calls for additional funds for care and maintenance, and nothing but the strictest economy enables your commissioners to make both ends meet.

We have endeavored each year to improve the appearance of the grounds, and how well we have succeeded we will leave to yourselves and the public to judge.

During the hot months the great amount of dust which is blown from North Main street over the lawns on the easterly side, causes a great amount of damage to the grass and shrubs, and affects the general appearance of that portion adjoining the street. As these grounds are owned by the City of Providence the dust in this street should be sprinkled sufficiently to prevent it from blowing about, both as a matter of economy in saving the top dressing and for the general appearance of the cemetery.

The charge of \$745 for water used upon the grounds last

year by another department of the city, which is more than self-sustaining, is an act which should not be permitted, especially as the City Council makes no appropriation for this department.

A new avenue has been laid out to the north of section No. 30 and nearly the whole of this section has been graded.

As has been our custom each year to regrade and put into good condition a portion of the old grounds which has been neglected by its owners, many of whom are dead and their surviving heirs are indifferent or unable to put these into respectable condition, about 10,000 square feet of this section has been improved, and to-day it presents a better appearance than any other burial ground in this vicinity.

The new receiving tomb, of which plans had been drawn and a detailed description given in our report for the year 1903, after several modifications had been made, as the cost was in excess of the amount at our disposal a contract was entered into with Messrs. Hartwell, Williams & Kingston for the building of the same and but for the early approach of cold weather it would have been completed.

Work is so far advanced, the inside being practically completed, that, with the consent of the contractors, it is in use and is filling a long-felt want and is pronounced by those competent to judge, the best tomb in this section of the country, and will be completed at a cost within the amount appropriated.

A considerable expense was incurred for filling and regrading upon the top and sides of the tomb and the changing of the grade of lots adjoining on Chapel avenue. All this was provided from our own funds; this, together with \$1,000 paid on the loan and \$259 interest, together with the cost of maintaining the high standard of care of last year, will give some idea of the rigid economy practiced by your commissioners.

A cement pipe conduit for holding electric wire cables 650 feet in length from Smithfield avenue to the tomb with



SACRED CORRIDOR, SHOWING RECEPTACLES IN NEW TOMB.

a branch conduit to the barn has been laid, and through the generosity of Mr. Marsden J. Perry a wire cable was laid, and the tomb and barn are now lighted by electricity.

We wish to express our thanks to the Society of Friends who so kindly allowed the use of their tomb free of cost during the past season, to the Providence Telephone Company, to Otis W. Clapp, City Engineer, and others who have contributed their services.

During the year there were 710 interments, making the total number of burials since 1848, which was the first year that any record was kept, 29,055.

The number of bodies entombed during the year was 64. 210 foundations and 109 brick graves were built.

34 private lots were graded and turfed containing 13,246 square feet.

2,792 cubic yards of low lands were filled.

Number of lots under perpetual care 1,190.

Number of lots under annual care 710.

Curbing was removed from 2 lots.

2 old tombs were removed.

10,059 square feet of land regraded and turfed around the new tomb.

Gutters repaved 3,500 square feet.

650 feet 3 inch drain pipe laid for electric light cables and 4 manholes built.

Personal property on hand September 30, 1903, as per inventory \$3,102.70.

There was an increase of perpetual care funds during the year 1903, to the amount of \$11,598.00.

Total perpetual care funds to December 31, 1903, \$169,224.16.

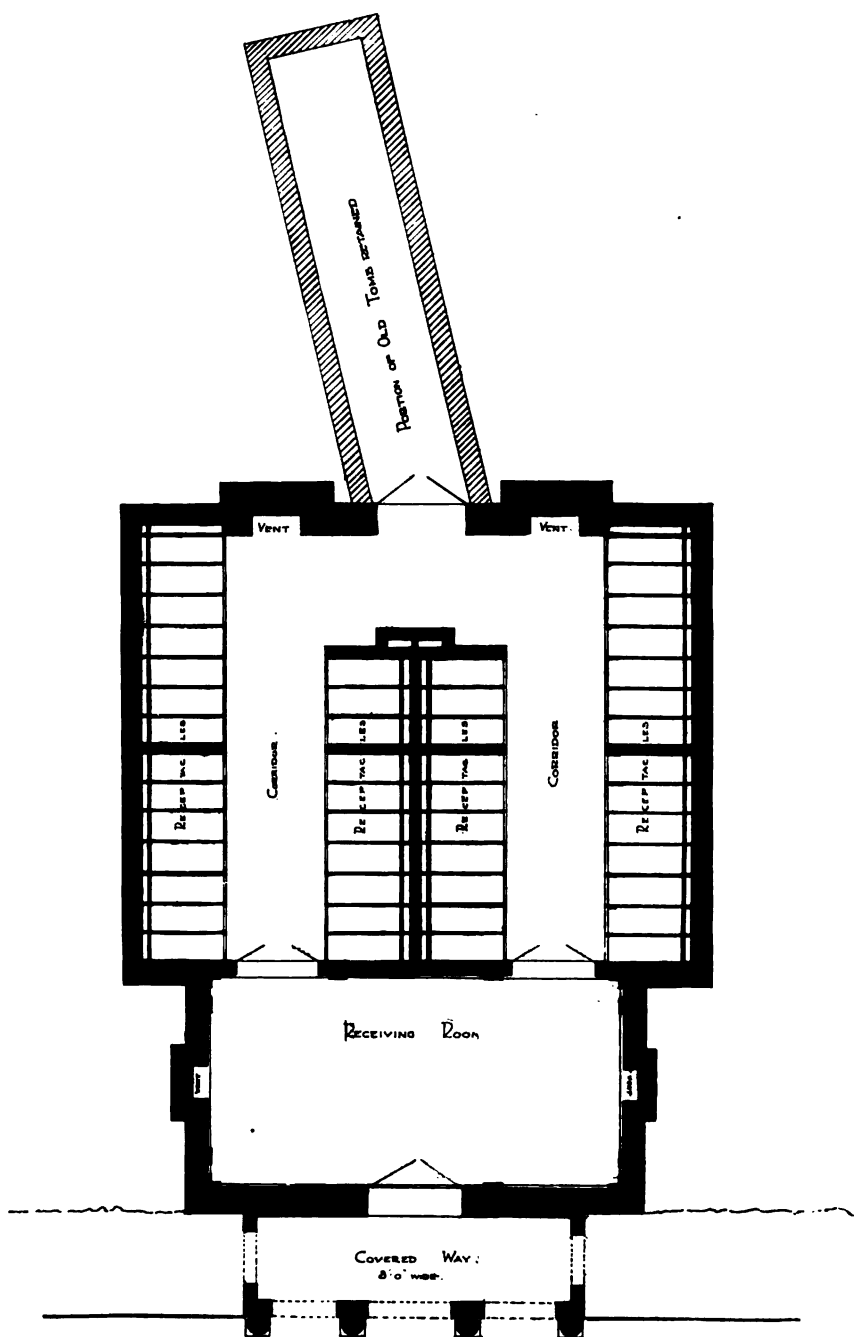
Average number of men employed 35.

Annexed find statement of receipts and expenditures.

For detail list of personal property see City Auditor's report October 1, 1903.

Respectfully submitted,

**WILLIAM K. REYNOLDS,
GEORGE L. PIERCE,
HENRY A. GRIMWOOD,
LAWRENCE J. COFFEY, (*ex-officio*),
*Commissioners.***



FLOOR PLAN OF NEW TOMB.

Statement of Receipts and Expenditures to December
31, 1903.

RECEIPTS.

Balance on hand Jan. 1, 1903.....		\$2,150 10
Sale of lots.....	\$5,636 25	
Perpetual care of lots.....	11,088 00	
Perpetual care of single graves.....	510 00	
Certificates	51 00	
Deeds and recording.....	38 25	
Rents of buildings.....	526 00	
Interest on perpetual care funds.....\$6,525.00 }		
Improvements of lots.....7,815.28 }	14,340 28	
Interments	3,449 00	
Tomb rents	505 50	
Brick graves	2,237 00	
Sundries	661 54	
Commissioners of Sinking Funds, balance on hand	5 79	

39,068 61

\$41,218 71

EXPENDITURES.

Paid Commissioners of Sinking Funds for per-	
petual care of lots and single graves.....	\$11,598 00
" City Treasurer for deeds and recording....	38 25

\$11,636 25

LABOR.

Paid salaries	\$3,114 32
" labor on improvements.....	11,578 07
" labor on interments.....	2,099 50
" labor on grading.....	986 52
" labor on avenues.....	1,229 27

\$19,007 68

SUNDRY BILLS.

Paid brick, lime, cement, etc.....	\$368 58
" hay, grain, etc.....	496 46
" manure and fertilizer, etc.....	601 75
" hardware, tools, seeds, etc.....	385 23
" paints, oils, etc.....	143 90
" blacksmithing and carriage repairs, etc.....	266 37
" City of Providence	745 03
" coal	470 30
" plumbing repairs	286 59
" lumber	542 32
" turf	102 23
" loam	439 33

Amount carried forward..... \$4,848 09

Amount brought forward.....	\$4,848 09	
Paid freight and expressage.....	4 83	
" trees, shrubs, plants, etc.....	138 15	
" repairing headstones	11 75	
" cartage	10 00	
" books, stationery, printing, etc.....	46 68	
" flower pots	34 70	
" use of telephones.....	131 00	
" stamped envelopes, postage stamps, etc.....	47 40	
" machine mowing	10 50	
" machine sawing wood	16 00	
" cement vases	36 00	
" repairing lawn mowers.....	11 35	
" paper and papering	82 97	
" boxes	38 85	
" city (\$4) and house directory (\$3).....	7 00	
" premium on bond of Superintendent.....	3 75	
" car fares	6 00	
" ice	7 70	
" electric lighting	1 02	
" rubber hose	32 00	
" harnesses and repairing harnesses, etc.....	49 06	
" wire cable	106 28	
" grave markers	192 50	
" drain pipe	44 72	
" earth, filling low land.....	45 00	
" 1 bbl. of weed killer.....	45 00	
" 1 new four-wheel truck.....	60 00	
" copper gutter	11 90	
" water meter and setting.....	18 00	
" 1 settee	6 00	
" grates for boiler.....	12 00	
" doctoring horses, and medicine.....	10 40	
" expenses of Superintendent, to the Convention	75 00	
" sundries	21 85	
		<u>\$6,223 25</u>
		\$36,867 18
Paid for one old burial lot bought under resolution of City Council.....	\$150 00	
" Commissioners of Sinking Funds, 5 cents per foot of land sold from Oct. 10, 1902, to Oct. 10, 1903 (9,477 square feet).....	473 85	
" City note on new tomb.....	1,000 00	
" Interest on notes.....	259 14	
		<u>\$1,882 99</u>
Balance in City Treasury Dec. 31, 1903.....		2,468 54
		<u>\$41,218 71</u>

VIEW OF NORTH SECTION OF GREENHOUSES.



1904.]

CITY DOCUMENT.

[No. 14.]

EIGHTY-FIFTH
QUARTERLY REPORT
OF THE
Department of Public Works
OF THE
CITY OF PROVIDENCE, R. I.

QUARTER ENDING MARCH 31, 1904.



The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
63 Washington Street,
1904.

REPORT.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS, }
CITY HALL, PROVIDENCE, R. I., April 1, 1904. }

TO THE HONORABLE THE CITY COUNCIL:

In compliance with the requirements of Chapter 41 of the ordinances, the Commissioner of Public Works respectfully presents the eighty-fifth quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending March 31, 1904.

WATER WORKS.

January 6th, the proposal of the Warren Foundry and Machine Company to furnish 501 tons of cast iron water pipe of various sizes at \$27.40 per gross ton, was accepted and a contract for the same subsequently executed.

February 3d, a contract was executed with the De Laval Steam Turbine Company to furnish and deliver at Pettaconset pumping station one 50 K. W. turbine generator, for the sum of \$2,800.00.

February 9th, the proposal of the Fuller Iron Works to furnish certain special castings for the high pressure fire service at two cents per pound, was accepted.

The average daily consumption of water during the last quarter was 14,086,612 gallons.

Water pipes were laid during the quarter as follows :

8-INCH.

In Montgomery avenue..... 433.67 feet.

6-INCH.

In Spencer street; and in Edgewood avenue in the town of
Cranston..... 458.34 feet.

Total..... 892.01 feet.
or 0.168 + mile.

Water pipes were abandoned or removed during the quarter as follows :

6-INCH.

From Manchester street..... 193.17 feet.
or 0.036+ mile.

Statement of sizes and lengths of pipe laid since the commencement of the work :

36-inch	10,084.00 feet.
30-inch	61,328.30 feet.
24-inch	43,758.29 feet.
20-inch	9,626.59 feet.
16-inch	33,812.96 feet.
12-inch	104,991.24 feet.
10-inch	15,057.14 feet.
8-inch	291,143.58 feet.
6-inch	1,231,561.64 feet.
Total.	1,801,363.73 feet.

or, 341.167 + miles.

Statement of sizes and lengths of pipe laid for the special water service for fire protection since the commencement of the work :

24-inch	4,188.58 feet.
16-inch	23,004.37 feet.
12-inch	2,215.76 feet.
Total.	29,408.71 feet.

or, 5.569 + miles.

Five fire hydrants have been set during the quarter, one in each of the following locations:

Anthony avenue, north side, 170 feet west of building line of Avon street.
Salem street, west side, 3 feet south of building line of Waldo street.
Seabury street, west side, 210 feet south of building line of Potters avenue.

Sorrento street, southeast side, 3 feet northeast of line of Benedict street.

Wadsworth street, northeast side, 224 feet southeast of line of Sorrento street.

The total number of fire hydrants, exclusive of those for special service for fire protection, is now nineteen hundred and ninety-four—eighteen hundred and ninety-one flush, and one hundred and three post.

The total number of fire hydrants on the special water service for fire protection is ninety-two.

During the quarter, one hundred and twelve water meters were set, of which number forty-six were to replace other meters. The use of eight meters was discontinued.

The following meters were in use at the close of the quarter:

KIND.	SIZE.									Total.
	$\frac{1}{2}$ -in.	$\frac{3}{4}$ -in.	1-in.	1 $\frac{1}{4}$ -in.	2-in.	3-in.	4-in.	6-in.	8-in.	
Ball & Fitts.....	2,115	435	103	11	5	.....	.....	.....	.....	2,669
Ball & Fitts, rotary...	.....	.....	4	7	.....	2	1	.....	.....	14
Crown.....	9,379	1,002	322	139	37	24	25	1	.....	11,019
Empire.....	960	137	62	45	13	1	1	.....	.....	1,219
Fales, Jenks & Sons..	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Gem.....	.....	.....	.....	.....	12	29	16	3	.....	60
Thomson.....	4,218	424	75	53	22	7	7	2	.....	4,808
Trident.....	102	.....	1	.....	.....	.....	.....	.....	.....	103
Venturi.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Worthington.....	1	.....	.....	.....	1	.....	.....	.....	.....	2
	16,775	2,088	568	255	90	63	50	6	1	19,896

One hundred and seventeen plumbers' licenses were issued during the quarter, all of which expire December 31, 1904.

Six hundred and seven permits to do plumbing work were issued during the quarter.

Forty-one applications for water were made during the quarter, making the total number twenty-six thousand one hundred and twenty-five.

The number of new service stops opened during the quarter was forty-three.

The total number of service stops opened to March 31, 1904, inclusive, was twenty-five thousand four hundred and sixty-five. The number in actual use March 31, 1904, was twenty-three thousand three hundred and three.

The amount of bills approved on account of water works from January 1, to March 31, 1904, inclusive, was:

For maintenance, \$51,453 40

Classified as follows:

PETTACONSET PUMPING STATION.

Coal and wood.....	\$4,674 19	
Sundries.....	751 32	
Engineers.....	697 32	
Firemen.....	594 00	
Superintendence.....	345 00	
Labor on fuel.....	203 80	
Repairs on boilers.....	141 46	
Oil, waste and packing.....	90 74	
Barn expenses.....	46 05	
Worthington high-duty engine.....	39 64	
Care of grounds.....	24 09	
Corliss pumping engine and house.....	18 60	
Lights.....	16 50	
Cornish engine house.....	8 43	
		\$7,651 05
Amount carried forward.....		\$7,651 05

Amount brought forward.....		\$7,651 06
SOCKANOSSET RESERVOIR.		
Watchman.....	\$168 00	
Sundries.....	26 90	
		194 90
HOPE PUMPING STATION.		
Firemen.....	\$384 30	
Coal and wood.....	286 53	
Engineers.....	276 00	
Lights....	59 60	
Sundries.....	54 90	
Oil, waste and packing.....	8 50	
Repairs on boilers.....	6 69	
		1,076 52
HOPE RESERVOIR.		
Watchman.....		189 00
FRUIT HILL RESERVOIR.		
Watchman.....	\$189 00	
Sundries.....	156 72	
		345 72
METER DEPARTMENT.		
Setting and repairing meters.....	\$1,522 28	
Water meters.....	581 71	
		2,103 99
PIPE LINE AND SERVICE STOPS.		
Repairs.....	\$3,828 98	
Inspection of pipe line and services.....	1,136 87	
Superintendence — salaries.....	783 00	
		5,748 85
PIPE YARD.		
Cast iron water pipe.....	\$14,413 95	
Laying water pipe.....	5,710 32	
Special castings.....	1,727 71	
Stop valves.....	1,495 00	
Taps and stops.....	967 23	
Fire hydrants, boxes and covers.....	950 00	
Tools.....	514 04	
Laying service pipe.....	456 87	
Pig lead and tin.....	391 73	
Labor on and carting pipe.....	162 13	
Pipe yard, office expenses.....	52 30	
		26,841 28
Amount carried forward.....		\$44,151 31

Amount brought forward.....	\$44,151 31
-----------------------------	-------------

MISCELLANEOUS.

Thawing out water pipes.....	\$4,172 12
Clerks' and inspectors' salaries.....	1,425 60
Barn expenses.....	634 53
Prevention of defilement of the Pawtuxet.....	549 99
Horses, wagons, harnesses, etc.....	348 96
Sundries.....	95 89
Car fares.....	75 00
	<hr/>
	7,302 09
	<hr/>
	\$51,453 40

For construction,	\$6,866 49
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Charged as follows :

Installation of sand filtration plant at Pettaconset,	\$6,866 49.
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The total expenditures to March 31,
1904, inclusive, was \$9,655,395 07

The net expenditure for maintenance from January 1 to March 31, 1904, inclusive, was.....	\$46,558 12
--	-------------

The net expenditure for maintenance to March 31, 1904, inclusive, was.....	\$2,041,317 42
---	----------------

The net expenditure for construction from January 1 to March 31, 1904, inclusive, was	\$6,866 49
--	------------

The value of the water works system,
January 1, 1904, as estimated by the city
engineer, was as follows :

Pettaconset pumping station.....	\$340,694 00
Hope pumping station	126,530 12
Sockanosset, Hope and Fruit Hill reservoirs.....	706,531 26
Main lines and distribution pipes.....	2,703,862 95
Real estate in Pawtuxet and Lincoln	15,975 00
Tools and supplies.....	44,939 96
	<hr/>
	\$3,938,533 29

Bills deposited with the city treasurer
for collection from January 1 to March 31,
1904, inclusive, amounted to \$441,248 06

As follows :

Water.....	\$435,745 75	
Water meters.....	2,469 25	
Setting and repairing meters.....	1,554 52	
Labor and material, laying services, etc.,	1,174 79	
Penalties.....	148 00	
Rent of real estate	143 00	
Repairs on pipe line	7 75	
Permanently closing service stops.....	5 00	
		<hr/> \$441,248 06

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of \$437,622 56

As follows :

Water.....	\$432,579 28	
Water meters.....	2,464 25	
Setting and repairing meters.....	1,352 81	
Labor and material, laying services, etc.....	838 11	
Rent of real estate.....	151 75	
Penalties.....	148 00	
Repairs on pipe line.....	83 36	
Permanently closing service stops.....	5 00	
		<hr/> \$437,622 56

SEWERS.

During the quarter ending March 31, 1904, ninety permits were issued to drain-layers — thirty for new work and sixty for extension and repairs of drains.

One hundred and twenty-seven drain-layers' licenses were issued during the quarter, all of which expire December 31, 1904.

February 2d, the proposal of J. H. Lane & Company to furnish and deliver 5,000 yards of No. 13 chain cloth at 29 cents per yard, was accepted.

February 23d, contracts for the construction of the following sewers were awarded and subsequently executed, namely:

[The amounts given below are what are estimated will be paid the contractors for labor, and do not include the cost of inspection and materials or rock excavation.]

TO FREDERICK E. SHAW.

No. of resolution. Date of approval.

52.	Feb.	2, 1904,	<i>Rosedale street, from Messer to Ellery,</i>	\$774 00
53.	"	"	<i>Admiral street, from Hillwood to end of present sewer in Admiral,</i>	638 70
55.	"	"	<i>Algonquin street, from Crescent to Holmes,</i>	668 50
56.	"	"	<i>Ninth and Pettis streets,</i>	712 50
57.	"	"	<i>Washington avenue, from Virginia to Eddy street,</i>	996 70
58.	"	"	<i>Thayer, Manning and Brook streets, (storm sewer),</i>	13,947 55
60.	"	"	<i>Alverson, Eastwood, Laurel Hill and Hart- ford avenues,</i>	12,673 95

TO CHARLES CRANKSHAW.

54.	Feb.	2, 1904,	<i>Chalkstone avenue, from Lisbon street to River avenue,</i>	\$625 65
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TO FRANK A GAMMINO.

59.	Feb.	2, 1904,	<i>Fairview and Pemberton streets,</i>	\$849 66
-----	------	----------	--	----------

During the quarter, the construction of the following sewer was completed, namely:

No. of resolution.	Date of approval.	Date of completion.
136.	April 7, 1903,	<i>Section 30, Seekonk Division, Improved Sewerage System,</i>
		. Jan. 12, 1904.

Work upon the following sewers was in progress at the close of the quarter, namely:

No. of resolution.	Date of approval.
230.	June 5, 1903, <i>West Park and Bath streets.</i>
322.	Sept. 18, 1903, <i>Dudley street, from Pearl and Plain to the head of the city dock.</i>
59.	Feb. 2, 1904, <i>Fairview and Pemberton streets.</i>

Work upon the following sewers, completing the work ordered by the city council, had not commenced March 31, 1904, namely:

No. of resolution.	Date of approval.
229.	June 5, 1903, <i>Reservoir avenue, west side, from Crescent street to Algonquin.</i>
319.	Sept. 18, 1903, <i>Elton street, from a low point 100 feet east of Taber avenue to Elmgrove.</i>
320.	" " " <i>Vandewater street, from Douglas avenue to Branch.</i>
52.	Feb. 2, 1904, <i>Rosedale street, from Messer to Ellery.</i>
53.	" " " <i>Admiral street, from Hillwood to end of present sewer in Admiral.</i>
54.	" " " <i>Chalkstone avenue, from Lisbon street to River avenue.</i>
55.	" " " <i>Algonquin street, from Crescent to Holmes.</i>
56.	" " " <i>Ninth and Pettis streets.</i>
57.	" " " <i>Washington avenue, from Virginia to Eddy street.</i>

No. of resolution. Date of approval.

58. Feb. 2, 1904, *Thayer, Manning and Brook streets,*
(storm sewer).
60. " " " *Alverson, Eastwood, Laurel Hill and*
Hartford avenues.

The amount of bills approved on account of sewers from January 1 to March 31, 1904, inclusive, was as follows:

FOR CONSTRUCTION.

Regular appropriation.....	\$3,827 86	
Improved sewerage appropriation.....	4,464 26	
		<u>\$8,292 12</u>

Charged as follows:

Material.....	\$1,345 77
Contract reservations.....	528 09
Sundries.....	275 02
Testing cement.....	138 25
Tools.....	3 05
Sewer in Dudley street, from junction of Pearl and Plain to Eddy street, and across land of the city from Eddy street to the head of the city dock.....	1,050 48
Sewer in Fairview and Pemberton streets.....	54 53
Sewer in West Park and Bath streets.....	443 17
Sewer in Seekonk Division, Section 30.....	4,453 76
	<u>\$8,292 12</u>

For maintenance, ; \$29,578 33

Classified as follows:

Cleaning basins and sewers.....	\$7,080 75
Repairing basins and sewers.....	3,294 37
Tools.....	1,035 78
Inspection of connections.....	598 92
Cleaning and repairing old drains.....	516 33
Barn expenses.....	460 99
Salary, superintendent.....	408 00
Horses, wagons, harnesses, etc.....	328 56
Office expenses.....	96 07
	<u>\$13,818 77</u>
Amount carried forward.....	\$13,818 77

REPORT OF THE DEPARTMENT OF PUBLIC WORKS. 13

Amount brought forward	\$13,818 77
Cleaning private connections.....	54 00
Telephone lines.....	30 10
Repairs on buildings.....	28 43
Car fares.....	25 00
Sundries.....	20 90
Repairs on gate-house.....	37

ERNEST STREET STATION.

Coal and wood	1,508 72
Engineers	831 33
Cleaning screens.....	622 38
Firemen.....	427 69
Cleaning and repairing pumps.....	395 28
Supplies.....	79 87
Care of grounds	62 42
Lights.....	33 36
Repairs on engines.....	25 76
Repairs on boilers.....	20 95
Repairs on buildings.....	5 50
Care of buildings	5 11

SEWAGE PRECIPITATION TANKS.

Chemicals	5,282 49
Labor in sludge disposal.....	2,400 93
Labor on sewage precipitation.....	1,606 94
Miscellaneous supplies.....	1,403 23
Electrical power.....	466 50
Fuel.....	308 24
Repairs on buildings.....	56 47
Lights.....	34 68
Repairs on machinery.....	22 91
	<hr/>
	\$29,378 33

The *net* expenditure for construction of sewers to March 31, 1904, inclusive, was..... \$7,516,403 44

The *net* expenditure for maintenance of sewers to March 31, 1904, inclusive, was..... \$1,067,772 35

Bills deposited with the city treasurer for collection from January 1 to March 31, 1904, inclusive, amounted to . . . \$198 64

As follows :

Sewer material.....	\$108 74
Cleaning private connections	85 00
Testing cement.....	4 90
	<hr/>
	\$198 64

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of \$383 63

As follows :

Miscellaneous work.....	\$170 64
Sewer material.....	130 34
Cleaning private connections.....	62 25
Filling cisterns, etc.....	11 50
Testing cement.....	8 90
	<hr/>
	\$383 63

HIGHWAYS.

One permit to open street was issued during the quarter.

February 10th, the proposal of James Beaton to furnish and deliver circular curbing to the amount of \$162.50, was accepted.

February 10th, the proposal of Nelson A. Bennett to furnish and deliver circular curbing, was accepted. Amount, \$162.50.

Statements have been prepared of the cost of curbstones, ascertained by the commissioner and certified to the board of aldermen for approval, as follows :

Bolander street, from Abbott to Grandview.....	\$713 95
Calais street, from Jewett to West Park.....	289 66
Croyland road, from Oxford street to Sayles	551 76
Hamlin street, from Roger Williams park to Elmwood avenue.	892 79
Hazael street, from Douglas avenue to General street.....	309 82
Laurel Hill avenue, from present curbing to Pocasset.....	633 21
Lenox avenue, from Melrose street to Hamilton.....	769 73
Moses Brown street, from Angell to South Angell.....	436 99
Phillips street, from Hope to Morris avenue.....	708 16
Promenade street, north side, from Leland to Calverley.....	430 24
Regent avenue, from Harold street to River avenue.....	688 34
Sayles street, from Gordon avenue to Prairie.....	548 32
Sears avenue, from Atwells to its northerly termination.....	704 97
Silver Spring street, from Ashton to Northup avenue.....	1,668 68
Suffolk street, from Admiral to Salina.....	456 14
Tuxedo avenue, from Amherst street to Atwells avenue.....	360 82
Wallace street, from Webster avenue to Priscilla.....	690 78
	<hr/>
	\$10,854 36

The following work was in progress March 31, 1904, namely:

SIDEWALKS TO BE CURBED AND GUTTERS PAVED.

Date of order.

Nov. 20, 1902, *Egan street, from Manton avenue to the bridge.*

Oct. 15, 1903, *Morris avenue, from Cypress street to Olney.*

TO GRADE AND PUT IN GOOD CONDITION.

June 18, 1903, *Hastings and Ledge streets.*

The following work, ordered by the board of aldermen and city council, had not commenced March 31, 1904, namely:

SIDEWALKS TO BE CURBED AND GUTTERS PAVED.

Date of order.

June 18, 1903, *Bath street, from Orms to Calverley.*

“ “ “ *Wayland avenue, from Lloyd to Irving.*

“ “ “ *Cole avenue, from Lloyd to Irving.*

“ “ “ *University avenue, from Elmgrove to Slater.*

Date of order.

Dec. 17, 1903, *Hilton street, from Willard avenue to Bogan street.*

Jan. 21, 1904, *Elton street, from Taber avenue to Elmgrove.*

Bills approved on account of highways
from January 1 to March 31, 1904, inclu-
sive, amounted to:

\$43,007 64

Classified as follows:

Removing snow and ice.....	\$21,135 62	
Crushed stone—material and labor.....	4,951 38	
Cleaning streets.....	2,675 20	
Barn expenses.....	2,664 42	
Blacksmith and wheelwright shop.....	2,603 13	
Steam rollers—repairs and supplies.....	2,146 52	
Repairs on stone crushers.....	1,635 50	
Stone—paving and crosswalk.....	787 30	
Labor on material.....	738 40	
Tools, implements, etc.....	554 45	
Repairs on buildings, highway yard.....	506 61	
Superintendent's salary.....	442 00	
Repairs on unpaved streets.....	337 00	
Horses, wagons, harnesses, etc.....	213 13	
Watchman at city yard.....	156 00	
Office expenses, city yard.....	72 99	
Sundries.....	47 17	
Repairs on paved streets.....	23 23	
Car fares.....	20 00	
Building driveways, etc.....	16 50	
Fencing streets—material and labor.....	11 00	
Telephone lines.....	5 35	
		\$41,742 90

NEW WORK—BUILDING AND REBUILD- ING STREETS, ETC.

TO GRADE AND PUT IN GOOD CONDITION.

<i>Hastings and Ledge streets.....</i>	1,264 74
	\$43,007 64

Bills deposited with the city treasurer
for collection from January 1 to March
31, 1904, inclusive, amounted to . . . \$2,237 38

As follows :

Blacksmith and harness work done for other departments.....	\$931 80
Labor and material.....	632 11
Boarding horses for other departments.....	273 84
Street sweepings.....	249 45
Manure from barn.....	68 00
Building driveways, etc.....	57 68
Discharging cargoes at city wharf.....	19 50
Removing snow and ice.....	5 00
	<hr/>
	\$2,237 38

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of \$15,191 15

As follows :

Labor and material.....	\$14,096 44
Blacksmith and harness work done for other departments.....	418 54
Boarding horses for other departments.....	273 84
Street sweepings.....	193 15
Building driveways, etc.....	86 18
Manure from barn.....	68 00
Use of steam rollers.....	51 00
Removing snow and ice.....	5 00
	<hr/>
	\$15,191 15

SIDEWALKS AND CURBING.

Bills approved on account of sidewalks and curbing from January 1 to March 31, 1904, inclusive, amounted to \$532 31

Charged as follows :

Concreting sidewalks.....	\$434 48
Repairing sidewalks and gutters.....	97 83
	<hr/>
	\$532 31

During the quarter, coupons from curb-
bills were returned by the city treasurer
and receipted for to the amount of . . . \$1,999 52

CITY ENGINEER.

Bills approved on account of the city
engineer's department from January 1 to
March 31, 1904, inclusive, amounted to \$12,161 75

Charged as follows :

Salary — city engineer.....	\$1,125 00
Salaries of assistants.....	9,750 25
Salaries of clerks.....	789 75
Supplies — drawing material, etc.....	243 06
Car fares.....	202 30
Instruments and repairs.....	23 84
Telephone lines.....	22 87
Carriage hire.....	4 13
Sundries.....	30
Meteorological instruments and repairs.....	25
	<hr/>
	\$12,161 75

BRIDGES.

February 17th, a contract for furnishing and erecting the
steel superstructure of Post Office bridge, and Exchange
bridge widening, was awarded to Lewis F. Shoemaker &
Company, Philadelphia, Pa., and the same was subsequently
executed.

The following work was in progress at the end of the
quarter, namely :

TO BUILD BRIDGE AND APPROACHES.

No. of resolution. Date of approval.

220. June 20, 1902, *Over Woonasquatucket river at Egan and Chatlett streets.*
411. Dec. 19, " *Exchange bridge on its northerly side ; bridge over the river between Exchange and Burnside bridges ; River walls between Burnside and Exchange bridges.*

Bills approved on account of bridges from
January 1 to March 31, 1904, inclusive,
amounted to \$3,862 29

Charged as follows:

Acorn street bridge.....	\$1 80
Barn expenses.....	115 34
Building at city yard.....	4 95
Car fares.....	25 15
Crawford street bridge.....	88 35
Exchange bridge.....	9 35
Francis street bridge.....	3 47
Horses, wagons, harnesses, etc.....	13 47
Lumber, hardware, etc.....	3 50
Manton bridge.....	60
Manton avenue bridge.....	13 05
Merino bridge.....	2 28
Point street bridge.....	541 94
Promenade street bridge.....	5 20
Randall street bridge.....	1 80
Red bridge.....	136 55
Rent of keeper's house— Washington bridge.....	36 00
Salaries — Point street bridge.....	978 25
Salaries — Red bridge.....	531 50
Salaries — Washington bridge.....	513 50
Sundries.....	405 20
Telephone lines.....	2 68
Tools.....	151 23
Washington bridge.....	210 37
Weybosset bridge.....	66 76

\$3,862 29

Bills deposited with the city treasurer for collection from January 1 to March 31, 1904, inclusive, amounted to \$700 64

As follows :

Lumber, hardware, etc..... \$700 64

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of \$700 64

As follows :

Lumber, hardware, etc..... \$700 64

Bills approved for account of building the Merino bridge, from January 1 to March 31, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of \$1,198 84

Bills approved for account of building the river walls between the Burnside and Exchange bridges, from January 1 to March 31, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of \$475 27

PUBLIC LIGHTS.

Bills approved on account of the public lights from January 1 to March 31, 1904, inclusive, amounted to \$69,325 58

Charged as follows :

Arc lights.....	\$51,039 65
Incandescent lights.....	11,864 97
Welsbach lights.....	5,866 65
Salaries.....	420 00
Setting and removing gas posts.....	65 71
Gas for street lights.....	63 60
Car fares.....	5 00
	<hr/>
	\$69,325 58

PUBLIC WORKS OFFICE.

Bills approved on account of the public works office from January 1 to March 31, 1904, inclusive, amounted to . . . \$4,969 77

Charged as follows:

Salaries of commissioner and secretary.....	\$1,850 00
Salaries of office assistants.....	2,917 78
Office supplies.....	201 99
	<hr/>
	\$4,969 77

CONTINGENCIES.

Bills approved for the inspection of electric wires from January 1 to March 31, 1904, inclusive, have been paid from the appropriation for contingencies to the amount of \$2 00

WALTER F. SLADE,
Commissioner.

1904.]

CITY DOCUMENT.

[No. 15.]

REPORT
OF
GEORGE S. CHASE,
SPECIAL EXAMINER,
OF THE
BOOKS AND ACCOUNTS
OF THE
City Treasurer and Others.

(Presented May 2, 1904.)



The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
63 Washington Street.
1904.

IN CITY COUNCIL,
May 2, 1904.

READ, whereupon it is ordered that the same be received.

Witness :

A handwritten signature in cursive script, reading "W. H. Clarke". The signature is written in dark ink and is positioned above a horizontal line. The line is slightly wavy and ends with a small flourish on the right side.

City Clerk.

REPORT OF GEORGE S. CHASE.

PROVIDENCE, April 7, 1904.

MESSRS. GEORGE W. PARKS,	}	<i>Finance Committee of the City of Providence.</i>
J. WILLIAM MOORE,		
BENJAMIN W. SPINK,		
G. RICHMOND PARSONS,		
STEPHEN A. COOKE,		

GENTLEMEN: I have, at your request, made a careful examination of the books and accounts of the Treasurer's Department for the year ending September 30, 1903, and I beg leave to submit the following:

REPORT.

On the evening of Tuesday, February 23, 1904, after the close of the office for business, I counted all the cash and cash items in the office of the Treasurer at the City Hall. On the next day I received certified statements of the balances at the different banks at the close of business February 23d.

I thereby proved that the cash on hand at the close of business February 23, 1904, was \$2,329,985.52 as stated by your Treasurer in his report of that date. As soon after as possible I compared each daily deposit as entered by the bank tellers on the deposit books, with the collections of

that day, as per the Treasurer's cash book, and carefully checked all transfers between banks.

This examination covered the time from the close of my last examination March 3, 1903 (see City Document, No. 7, 1903), down to February 23, 1904, and included all the cash received at the Treasurer's office, whether general or special, the sinking funds, and the Dexter Donation fund.

Attached to this report I give a statement of the bank balances at the close of business Saturday, February 23, 1904, according to the Treasurer's books, together with the above mentioned certificates verifying the correctness of the same.

In addition to the above I find in the Treasurer's office similar certificates dated October 19, 1903, which verify the cash balance at the close of the fiscal year.

INCOME.

As a detailed list of the sources of income is given in the annual report of the City Treasurer, I do not consider it necessary to repeat it here. In a few cases I was not able to reach the original entries but was obliged to content myself with the sworn statements on file at the Treasurer's office. In all cases where the original books of entry are kept at the City Hall or at the office of the License Commissioners, I have carefully examined these books, comparing them item by item with the corresponding entries in the Treasurer's cash books. Finally, in these, as in all other cases, I have followed the entries through the cash book into the ledger, in order to satisfy myself that each source of income has received its proper credit.

In the following cases my examination has taken special form in consequence partly of the character of the income itself, and partly because in these, if anywhere, there lies

the possibility of embezzlement by the clerks through whose hands the money passes.

Poll Taxes. I have made a most careful examination of this account. The cash received accounts for all names marked "Paid" on the poll tax book. For all the names not marked "Paid" I find the original bills on file at the Treasurer's office.

City Tax of 1902. My examination of this account was brought down to March 9, 1904. At that date the account stood as follows:

Total taxes as per tax book.....		\$3,183,239 74
Collections as per cash book.....	\$3,165,408 16	
Less interest cr. to int. account..	8,167 72	
		<hr/>
Balance applicable to tax.....	\$3,157,240 44	
Abatements already authorized.....	2,212 80	
		<hr/>
		\$3,159,453 24
Balance uncollected March 9, 1904:		
Sundry persons, real estate.....	\$462 08	
Sundry persons, personal property..	23,286 68	
City of Providence, sidewalk and		
curbing	37 74	
		<hr/>
		\$23,786 50

Of the above amounts I have carefully compared the tax bills on hand with the unpaid names on the list, and all are accounted for.

Sewer Assessments. A list of the bills on hand made February 23, 1904, plus the Treasurer's cash, accounted for all the bills made out to that date.

City Licenses. I have compared the stubs of the license books in the City Clerk's office and at the office of the License Commissioners one by one, with the entries in the Treasurer's cash books, and I find every license accounted for.

Dog Licenses. The license book verifies the Treasurer's statement of the cash received from this source.

Water Rents. In verifying receipts from water rents and other branches of the Department of Public Works, I have compared the books of the two offices, and I find them in agreement.

Dexter Donation. Although the Dexter Donation Fund does not appear as a part of the Treasury cash, yet as the City Treasurer is *ex-officio* the treasurer of this fund, I have examined that account also. I find that all rents have been promptly collected and all income properly accounted for.

Firemen's Pension Fund.

Police Pension Fund.

Public School Teachers' Retirement Fund.

I have carefully verified all the transactions in these funds, both receipts and outlays, and I find in each fund that the balance on hand is properly accounted for either by notes of the City of Providence or by cash in bank.

In General. In all other cases, as well as those specified above, I have endeavored not only to verify the cash entry by the original voucher, but as far as was possible, to satisfy myself that the cash received by the Treasurer was the full amount which the city was entitled to receive.

OUTLAYS.

Total Payments. The Treasurer in his report (City Document No. 2, 1904, pages 194 to 209), charges the City with cash paid amounting to \$5,717,447.84, divided as follows:

Commissioners of Sinking Funds.....	\$235,110 00
Commissioners of Sinking Funds, Water Rents.....	260,507 58
Interest on:	
(a) Temporary Loans	\$26,135 94
(b) Funded Debt	641,887 50
	<hr/> 668,023 44
Loans paid:	
Temporary Loans	\$692,123 91
Water Loan Bonds due July 1st, 1900.....	3,000 00
Sundry Payments	3,858,682 91
	<hr/> \$5,717,447 84

The explanations and vouchers for the above are as follows:

Commissioners of Sinking Funds. For all the transactions with the Sinking Fund Commissioners covered by the entries on pages 198 to 202 of the Treasurer's report, I find in the Auditor's hands the receipts of Walter L. Clarke as treasurer of the sinking funds. I have also compared item by item, the corresponding entries in the sinking fund books, and I find them in agreement. The various appropriations for the redemption of bonds are as stated. They are properly credited to their respective accounts, and the balances of the several funds verify the statement in the Auditor's report, pages 110 to 121.

The figures given above are for the city's fiscal year which ended September 30, 1903.

I have continued the examination of the sinking fund accounts to the close of the year 1903, using the same system of cross examinations; and I am therefore able to certify that the trial balance exhibited by Walter L. Clarke as treasurer of the sinking funds, under date of December 31, 1903, and the 30th annual report of the Board of Commissioners of the Sinking Funds dated January, 1904, are correct statements of the various funds and accounts as they stood at the close of business December 31, 1903.

Water Rents. I have carefully compared the water rents with the cost of the water maintenance during the year, and I find that the excess of income over expenses is correctly stated at \$260,507.58, and that this amount has been converted into the sinking fund as required by law, the vouchers being the receipt of the treasurer of the sinking fund and the books of the sinking fund commissioners.

Interest. Of the temporary loans (\$796,920.06) \$243,620.83 was borrowed partly from the Anna H. Man Trust Fund, and partly from Providence banks. The balance of these loans (\$553,299.23) was borrowed from the sinking funds, and upon this the interest was paid into the proper funds, which fact I have verified in the same manner as above.

For the interest on the (b) funded debt I find as vouchers the personal receipts of the holders (or of their attorneys) of the registered bonds, and for the coupon interest I find the monthly statements of the National City Bank of New York, which agree with the Treasurer's cash and check books, and also the checks themselves.

The temporary loans paid amounting to.....	\$554,223 91
Is less than the loans borrowed during the year which amounted to.....	796,920 06
Showing an increase in this account of.....	\$242,696 15

Viz.:

Amount outstanding Sept. 30, 1902.....	\$865,723 91
Amount outstanding Sept. 30, 1903.....	1,106,420 06
	\$242,696 15

All of the retired notes are on file at the Auditor's office, properly cancelled.

Sundry payments:

(a) State of Rhode Island.....	\$377,268 16
(b) Commissioners of Sinking Funds.....	16,163 80
(c) Audits 722 to 734 inclusive.....	3,455,250 95
	\$3,858,682 91

(a) *State of Rhode Island.* This is the proportionate share of the State in the various taxes collected by the city, and for which there are on file at the Auditor's office the receipts of the State Treasurer.

(b) *Commissioners of Sinking Funds \$16,163.80.* This arises from the sale of lands belonging to the city, unexpended appropriations, etc.

(c) *Audits 722 to 734 Inclusive.* These are sundry bills and pay rolls approved by the City Auditor, passed in Committee on Accounts and ordered to be paid by the Mayor.

As vouchers for these I find at the Treasurer's office, Mayor's orders and Auditor's drafts, which, combined, amount to this sum; and I also find the autograph receipts of all the payees or of their attorneys, except that for the regular pay rolls the Treasurer holds the receipts of the paymasters or attorneys authorized to receive and distribute the money. The pay rolls themselves are on file at the Auditor's office. I have examined all these pay rolls and I find upon them the receipt of each employee of the money due him or her, with the exception of fourteen (14) payees, who for reasons unknown to me had not, at the time of my examination received their money.

And for these fourteen (14)), I found in the hands of the Treasurer the original envelopes containing the money awaiting the demand of the rightful owners.

Of the pay envelopes on hand one year ago, four (4) are still on hand, the rest have been paid as per the receipts on file at the Auditor's office or have been covered into the Treasury.

Certificate of Examiner. I have, therefore, in the various ways specified above, verified the statements of the Treasurer of the moneys paid out by him, amounting to \$5,717,-

447.84, and I hereby certify that for this amount I have found full and satisfactory vouchers.

Trust Funds. Besides the Sinking Funds the Treasurer is *ex-officio* treasurer of sundry funds held by the City as trustee. A list of these is given on pages 122 to 127 of the Auditor's report. I have examined with the greatest care both the income and outlay accounts of each of these funds, and am sure that each fund has received all the additions to which it is legally entitled.

Respectfully submitted,

GEO. S. CHASE,
Special Examiner.

APPENDIX.

R. I. Hospital Trust Co.

General Account	\$341,360	70	
Participation Account	*4,651	52	
Sinking Funds	59,557	02	\$405,569 24
Sinking Funds	**50,000	00	

Merchants National Bank.

General Account	\$344,260	23	
Special Account			
Sinking Funds	59,445	90	\$403,706 13
Sinking Funds	**50,000	00	

Industrial Trust Co.

General Account	\$317,018	22	
Special Account	480	02	
Dexter Donation	21,054	77	
Sinking Funds	4,366	01	\$342,919 02
Sinking Funds	**50,000	00	

Providence National Bank.

General Account			\$389,520 21
Special Account			

Manufacturers Trust Co.

General Account			\$382,161 18
Special Account			
Sinking Funds	**50,000	00	

National Bank of Commerce.

General Account			\$406,109 74
Special Account			

Total	\$2,329,985	52	
	**200,000	00	

*Participation Account as above	\$4,651	52	
Accrued interest not credited		81	38
Total as per bank certificates		4,732	90

**Four special deposits of \$50,000 each belonging to the Sinking Funds.

RHODE ISLAND HOSPITAL TRUST COMPANY.

PROVIDENCE, R. I., Feby. 24, 1904.

This certifies that, at the close of business February 23, 1904, our books show a balance of three hundred forty-one thousand three hundred sixty and seventy one hundredths dollars (\$341,360.70), due on account in name of City of Providence "General Account."

W. A. GAMWELL, *Assistant Secretary.*

RHODE ISLAND HOSPITAL TRUST COMPANY.

PROVIDENCE, R. I., Feby. 24, 1904.

This certifies that, at the close of business February 23, 1904, our books show a balance of one thousand seventy-one and eighty-four one hundredths dollars (\$1,071.84), due on Participation account in name of City of Providence "Charles H. Smith Trust Fund."

W. A. GAMWELL, *Assistant Secretary.*

RHODE ISLAND HOSPITAL TRUST COMPANY.

PROVIDENCE, R. I., Feby. 24, 1904.

This certifies that, at the close of business February 23, 1904, our books show a balance of three thousand fifty-eight and twenty-two one hundredths dollars (\$3,058.22), due on Participation account in name of City of Providence "Senator Henry E. Anthony Prize Fund."

W. A. GAMWELL, *Assistant Secretary.*

RHODE ISLAND HOSPITAL TRUST COMPANY.

PROVIDENCE, R. I., Feby. 24, 1904.

This certifies that, at the close of business February 23, 1904, our books show a balance of six hundred two and eighty-four one hundredths dollars (\$602.84), due on Participation account in name of City of Providence "Mary Swift Bragunn Fund."

W. A. GAMWELL, *Assistant Secretary.*

RHODE ISLAND HOSPITAL TRUST COMPANY.

PROVIDENCE, R. I., Feby. 24, 1904.

This certifies that, at the close of business February 23, 1904, our books show a balance of fifty-nine thousand five hundred fifty-seven and two one hundredths dollars (\$59,557.02), due on account in name of Commissioners of Sinking Funds, City of Providence.

W. A. GAMWELL, *Assistant Secretary.*

MERCHANTS NATIONAL BANK.

PROVIDENCE, R. I., Feb. 24, 1904.

CITY OF PROVIDENCE, COMMISSIONERS OF SINKING FUNDS:

Our books at the close of business February 23, 1904, show a balance of \$344,200.23, due you.

Yours respectfully,

M. J. BARBER, *Cashier.*

MERCHANTS NATIONAL BANK.

PROVIDENCE, R. I., Feb. 24, 1904.

CITY OF PROVIDENCE, COMMISSIONERS SINKING FUNDS:

Our books at the close of business February 23, 1904, show a balance of \$59,445.90, due you.

Yours respectfully,

M. J. BARBER, *Cashier.*

PROVIDENCE NATIONAL BANK.

PROVIDENCE, R. I., Feb. 24, 1904.

WALTER L. CLARKE, Esq., City Treasurer, Providence, R. I.:

DEAR SIR: I hereby certify that the amount of balance to the credit of the City of Providence at the close of business February 23, 1904, was \$389,520.21.

Respectfully,

A. R. MATTESON, *Cashier.*

MANUFACTURERS TRUST COMPANY.

PROVIDENCE, R. I., Feb. 24, 1904.

MR. WALTER L. CLARKE, City Treasurer, City of Providence:

DEAR SIR: I hereby certify that there was a balance of three hundred eighty-two thousand one hundred sixty-one and eighteen one hundredths dollars (\$382,161.18) standing to the credit of the City of Providence on the books of this company at the close of business February 23, 1904.

Yours very truly,

C. F. STEVENS, *Assistant Treasurer.*

THE NATIONAL BANK OF COMMERCE.

The City of Providence had a balance to their credit on the books of this bank at the close of business February 23, 1904, of \$406,109.74.

J. C. FENNER, *Bookkeeper.*

February 24, 1904.

INDUSTRIAL TRUST COMPANY.

PROVIDENCE, R. I., Feb. 24, 1904.

WALTER L. CLARKE, Esq., City Treasurer, Providence, R. I.

DEAR SIR: I beg to advise you that the balances of your accounts as shown by our books at the close of business February 23, 1904, were as follows:

City of Providence	\$322,707 43
City of Providence (Special).....	551 02
Dexter Donation Fund	21,054 77
Commissioners of Sinking Fund.....	4,366 01

Yours very truly,

HENRY B. CONGDON, *Assistant Secretary.*

1904.]

CITY DOCUMENT.

[No. 16.]

TWENTY-FIRST ANNUAL REPORT

OF THE

Superintendent of Health,

OF THE

CITY OF PROVIDENCE,

FOR THE

YEAR ENDING DECEMBER 31, 1903.



The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
63 Washington Street,
1904.

MAYOR,
AUGUSTUS S. MILLER,

BOARD OF ALDERMEN,

Ex-officio

BOARD OF HEALTH,

1904.

PRESIDENT,
JAMES F. FREEMAN.

STEPHEN A. COOKE,	FIRST WARD.
ABRAHAM A. GRAY,	SECOND WARD.
DENNIS F. MCCARTHY,	THIRD WARD.
JOHN C. BUDLONG, M. D.,	FOURTH WARD.
WILLIAM K. REYNOLDS,	FIFTH WARD.
JAMES F. FREEMAN,	SIXTH WARD.
WALTER A. PRESBREY,	SEVENTH WARD.
GILBERT R. PARKER,	EIGHTH WARD.
BURMAH E. PERKINS,	NINTH WARD.
WILLIAM H. COVELL,	TENTH WARD.

CLERK,
WILLIAM E. CLARKE.

COMMITTEE ON HEALTH DEPARTMENT,
DENNIS F. MCCARTHY, *Chairman*.
WILLIAM K. REYNOLDS. JOHN C. BUDLONG, M. D.

SUPERINTENDENT OF HEALTH AND CITY REGISTRAR,
CHARLES V. CHAPIN, M. D.

VACCINATING PHYSICIAN,
CHARLES H. LEONARD, M. D.

MEDICAL INSPECTOR,
EUGENE P. KING, M. D.

SANITARY INSPECTOR.
WALTER J. LEWIS.

SIGNAL OFFICER AT QUARANTINE.
EDWARD GROGAN.

INSPECTOR OF PROVISIONS,
WILLIAM J. BEANE.

CLERK,
FLORENCE R. BOWEN.

DISINFECTOR,
GEORGE A. WIEHE.

CHIEF REGISTRATION CLERK.
M. JOSEPHINE PECKHAM.

RECORD CLERK,
GRACE I. MEAD.

MARRIAGE LICENSE CLERK.
MAUDE S. S. JALBERT.

REPORT.

OFFICE OF THE SUPERINTENDENT OF HEALTH,
April 18, 1904.

TO THE HONORABLE THE CITY COUNCIL:

The Superintendent of Health herewith presents his report for the year ending December 31, 1903:

NUISANCES.

During the year 771 complaints of nuisances were made at this office. In addition to these complaints, 95 were received through the police, making 866 complaints received from the public during the year. A large number of these, however, had already received attention when the formal report reached this office. The nuisances abated during the year were as follows:

TABLE I.

NUISANCES.	1902	1903
Privy vaults full and offensive.....	85	84
Cesspools full and offensive.....	5	22
Uncovered vaults and cesspools.....	12	11
Cesspools and vaults overflowing.....	45	60
Cesspools and vaults leaking into cellar.....	17	11
Defective waste and drain pipes.....	51	28
No traps	10	15
Filthy yards and bins.....	270	283
Filthy water flowing into the street.....	7	20
Defective water closets.....	71	88
Filthy cellars	38	47
Filthy tenements	3	14
Stable manure not covered.....	74	71
Filthy dump	14	11
Obstructed drains	13	35
Miscellaneous	80	76

Forty-four orders under form A, to abate nuisances, were issued by your board, 29 under form C, to vacate premises, and 52 under form E, to connect with the sewer.

GARBAGE.

During the year the "swill and house offal" was collected by Messrs. A. H. & J. Barney under a temporary arrangement at the rate of 15 1-2 cents per capita. The amount paid has been \$2,299.17 per month, the population being estimated at the time the agreement was made at 178,000. This makes the annual payments \$27,590.04. The contractors use 22 two-horse wagons, and it is estimated that about 16,000 tons of garbage are collected annually.

During the year 472 complaints were received from householders in regard to the removal of their swill, or in regard to articles supposed to be lost in it. Most of these complaints were due to failure to report return home after absence, or to the putting of ashes or other improper matters in the swill. During the summer the contractor placed a telephone in his foreman's office so that complaints might receive prompt attention at all hours.

A small amount of garbage is collected by farmers who receive a special license for this. There are also a considerable number of farmers who purchase swill from the contractors and draw it out into the country to feed to swine. Each person is required to have a license for this, and to carry the swill in a tight box closely covered. In all 107 of these licenses were issued during 1903. These licenses run from April 1st to April 1st. This change in the date for granting licenses was made so it might not be necessary to repair and paint the wagons for inspection during the bad weather of winter.

A good deal of trouble is caused by these "outside" swill men for it is very difficult to look after so many wagons and see that they are kept in good condition. As a matter of fact many of them are dirty and leaky a good part of the

time. The farmers who collect from restaurants occasionally fail to do their work and then this department is sure to be blamed, for the public fails to discriminate between these farmers' wagons and those operated by the contractor. Moreover these men will often collect from places other than those named in the license. Recently one man was fined three times for this offense. In my opinion it would be a good thing if all these licenses were refused.

A short history of garbage collection and disposal was given in my last report.

INSPECTION OF PROVISIONS.

The following is the report of the Inspector of Provisions:

PROVIDENCE, R. I., Jan. 26, 1904.

DR. CHARLES V. CHAPIN, SUPERINTENDENT OF HEALTH:

DEAR SIR: I submit my report for the year 1903 as Inspector of Provisions:

The following is a summary of the work performed:

TABLE II.

INSPECTION OF PROVISIONS.		
WARDS.	STORES.	VISITS.
1	66	1,584
2	24	576
3	93	2,232
4	92	3,304
5	53	1,590
6	40	1,184
7	54	1,620
8	47	1,310
9	80	2,440
10	48	1,364
	597	17,204

In addition there have been made 4,800 inspections of meat, fish and produce peddlers' wagons. Six inspections of steamers and twenty complaints attended to. The following is a list of goods condemned:

TABLE III.

PROVISIONS CONDEMNED.

Beef.....	5,830 lbs.	Pressed ham.....	10 lbs.
Corned Beef.....	2,800 "	Smoked ham.....	35 "
Veal, bob, or less than four weeks old.....	6,569 "	Ducks.....	155 "
Veal, sour.....	1,690 "	Pork.....	2,298 "
Lamb and mutton.....	1,585 "	Liver.....	250 "
Chickens and fowls.....	2,746 "	Tripe.....	25 "
Turkeys.....	1,283 "	Venison.....	20 "
Geese.....	64 "	Fish.....	1,763 "
Pork shoulders.....	200 "	Salt codfish.....	170 "
Sausage.....	65 "	Lobsters.....	150 "
Smoked shoulders.....	100 "	Crabs.....	600 "
Bologna.....	20 "	One car of beef, one hundred and thirty- four quarters and two rounds.....	20,000 "
Smoked bacon.....	35 "		
Blood puddings.....	40 "		
Frankforts.....	20 "		
		Total.....	48,523 lbs.

VEGETABLES AND FRUIT.

Beets.....	5 bushels.	Strawberries.....	370 quarts.
Cucumbers.....	2 "	Blackberries.....	14 "
Spinach.....	93 barrels.	Bananas.....	21 dozen.
Cabbage.....	6 "	Grape fruit.....	6 "
Kale.....	32 "	Cantelope melons.....	180 "

Total number of pounds of provisions.....	48,523
Total number of bushels of vegetables.....	390
Total number of dozens of fruit.....	207

Respectfully submitted,

JOHN J. DONNELLY,

Inspector of Provisions.

DEAD ANIMALS.

During the early part of 1901 it was represented to your board that it would be desirable to make an exclusive contract for the removal of dead animals, just as a single contractor had for many years been given contract of the collection of garbage. It was not at first clear whether the city could, without special action by the legislature, make such a contract, but it was finally so decided by the City Solicitor.

itor. An ordinance providing for this was passed and approved July 1, 1902 (Chapter 1, Secs. 6 and 7.)

In accordance with this ordinance the Board of Aldermen on July 10th of that year directed the Mayor to execute such a contract with the Rhode Island Rendering Co. This contract was for one year and gave the Rendering Company the exclusive right to remove the larger dead animals and all meat condemned by the Board of Health. The Rendering Company was to receive no compensation but was to "purchase at a fair market price (subject to the reservation that the Board of Health may at any time fix the minimum sum which the party of the second part shall pay for such dead body) the dead body of every such horse found upon the owner's premises, provided the owner wishes to sell it to them, and provided that they be summoned by said owner to remove the horse before its death, or within reasonable time thereafter." The company received no compensation from the city and did not pay anything for its exclusive franchise. On July 3, 1902, bids for this work were advertised for and a contract was entered into with William Edmonds for a period of one year under which contract the latter was to pay the city the sum of \$2,400. Bids were again advertised for June 19, 1903, and on July 10 a contract for a period of five years was executed with William Edmonds and Theodore S. Barnes. These parties gave bonds in the sum of \$7,500, and are to pay the city \$1,500 annually. In addition to this they are to furnish teams for the inspector of provisions.

NIGHT SOIL.

In accordance with the statute and rules of 1892, licenses are issued to engage in the business of removing the contents of privy vaults and cesspools. These licenses run from April 1st to April 1st and the fee for a license is \$1. The number issued in 1897 was 29, in 1898 it was 24, in 1899 it was 25, in 1900 it was 21, in 1901 it was 20, in 1902 it was 20 and in 1903 it was 19.

BOARDING HOUSES FOR INFANTS.

These boarding houses are required to take out licenses annually by Chapter 464 of the Public Laws (May 20, 1897). they must also be inspected annually by this department. Thirteen licenses were issued in 1903 authorizing the receiving of 48 children. The largest number in any one house was twelve.

There are no baby farms in the ordinary acceptance of the term in the city, that is, there are no places where large numbers of children are kept together under poor surroundings and with neglect of all sanitary precautions.

LODGING HOUSES.

The Act to Regulate Lodging Houses in this city was passed, March 28, 1902, and the Regulations authorized by it were adopted by your board July 17, 1902.

At present the following places are licensed:

Bethel Christian Mission.....	98 Wickenden St.
Smith & Jaffa.....	213 South Main St.
Samuel Marks.....	103 South Main St.
Joseph P. Fallon.....	1 North Main St.
Minnie Woleon.....	35 North Main St.
Henry A. Murphy.....	9 Well St.
Adolph Selingut.....	193 Richmond St.

Two of the worst lodging houses have been given up and a case has recently been secured against the proprietor of another who was receiving lodgers in violation of the law. The licensed houses are in better condition than ever before, but there is still room for improvement. A more frequent inspection is required than has thus far been possible.

DISINFECTION.

Disinfection after communicable disease in the city is not compulsory, and is only done at the request of the family. It is done by this department without charge. The following are the number of disinfections since 1885:

TABLE IV.
DISINFECTIONS.

YEAR.	Scarlet Fever.	Diphtheria.	Phthisis.	Miscel- laneous.	Total.
1885.....					39
1886.....					95
1887.....					181
1888.....					180
1889.....					92
1890.....					93
1891.....					132
1892.....	101	28		11	140
1893.....	158	8	4	3	173
1894.....	331	56	1	12	400
1895.....	555	188	1	11	755
1896.....	338	558	16	27	939
1897.....	264	478	10	27	779
1898.....	223	129	20	14	386
1899.....	301	145	22	32	500
1900.....	313	289	12	34	648
1901.....	238	421	20	29	708
1902.....	186	362	23	62	633
1903.....	393	506	34	49	982
Total.....	3,401	3,168	163	311*	7,855

* Of these the following were for smallpox: in 1892, 6; in 1894, 12; in 1895, 1; in 1902, 43, and in 1903, 8.

Official disinfection in Providence was begun in 1885 and was purely voluntary. It was performed by the Medical Inspector by burning sulphur. There were only 39 such fumigations in that year. As it was shown during the next few years that sulphurous acid gas has no penetrating power and is not very efficient at the best, it was determined to supplement its use by steam disinfection. This

was begun in 1889 in a small wooden building to which the goods were taken in canvas bags. In 1890 an iron tank was substituted for this building. As the use of sulphur was shown to be quite unreliable even for surface disinfection and yet caused considerable injury to property, its use was discontinued in 1896. As it seemed to me that besides the dishes used by the patient, the personal clothing and bed clothing the furniture and the woodwork of the room were the most likely to be infected, it was determined to leave at each infected house small boxes of corrosive sublimate with directions for making a solution for soaking clothes and washing woodwork and furniture. This has been done since 1896. In 1897 it appeared that formaldehyde would serve as an efficient gaseous disinfectant and its use was begun. Several methods of generating it have been tried and the method mentioned below has been in use for several years. In steam disinfection mattresses and blankets and occasionally carpets were about all that was usually sent to the steam shed. Blankets in the families where communicable diseases generally occur are often washed, and mattresses are not in my opinion liable to be much infected, and as these goods could all be freely sprayed with formalin, and as steam disinfection is comparatively expensive, its use began to diminish in 1899, and it is now rarely resorted to. For the past twelve or thirteen years disinfection after some of the modes above described has been done after nearly every case of scarlet fever and diphtheria. At present a modified Chicago method of using formaldehyde is followed. In some instances sheets are hung up and sprayed exactly as in Chicago, but in a large proportion of cases the spray is applied to the carpets, rugs, hangings, clothing, bedding, etc., which happen to be in the room and which are spread out as freely as possible. Corrosive sublimate is left at nearly every house and is often furnished during the course of the disease.

It is of interest to know how often these diseases recur

after the process of disinfection, so-called. It would be more interesting to compare the degree of recurrence in those families where disinfection is done with those families in which it is neglected, but previous to the last ten years the facts as to disinfection were not always noted on the record slip and even of late years this has sometimes been omitted. For the last ten years, however, it can be seen from the table of disinfections done that the city disinfects in about 90 per cent. of all cases.

Since 1895 there have been in diphtheria at least 1,400 families in which susceptible children remained after the removal of the warning sign. Of these families 55 were afterwards attacked and the date on which they were attacked was as follows:

TABLE V.

DIPHTHERIA.

Day after the removal of the placard on which the disease recurred.

Day.	Number of Instances.	Day.	Number of Instances.
1	2	21	
2	2	22	
3	5	23	
4	4	24	
5		25	
6	3	26	1
7	6	27	
8	1	28	1
9	3	29	
10	3	30	
11	2	31	1
12		2 mo.	9
13		3 "	2
14	2	4 "	2
15		5 "	1
16		6 "	
17	1	7 "	1
18	3		
19		Total.....	55
20			

Of the above there were 3 instances where the disease recurred in those families where there was no official disinfection.

tion. This is less often than in those families where there was disinfection. These 55 instances of recurrence must be at the rate of about 1 in every 27 families or thereabouts. There were also twelve instances in which the disease recurred in the same house but in another family. This is about 1 in every 124. The date of the development of these twelve cases after the removal of the placard was 1 on the second day, 1 on the third, 2 on the seventh, 1 on the sixteenth, 1 on the twenty-fifth, 2 in the second month (in one of which there was no official disinfection), 1 in the fourth, 1 in the fifth, 1 in the seventh and 1 in the eleventh month. There were also the five cases in persons who had removed from home and were attacked on their return and which might also be attributed to failure of disinfection.

If the cases recurring after disinfection be studied in detail, as they cannot be in this report, it is seen that some of them, though perhaps not many, are probably not recurrences at all but were infected from outside, there being other cases and often many of them, in the neighborhood. It must also be remembered that in the majority of cases no cultures were taken from the members of the family who had remained well, and that when they were taken they were usually from the throat only, and that many times cultures were not taken from even the patient, and when they were taken they were generally only throat cultures. Investigations made in this and other cities show that the nose is as likely to be infected as the throat and that a single culture fails to show the bacilli in about 10 per cent. of the throats examined and also that the well members of the family are likely to be infected in throat or nose to the extent of from 20 to 50 per cent. It is also known that virulent bacilli will remain in throat and nose sometimes for weeks or months. It appears certain then that in the 1,400 families here considered there must have been hundreds of cases of infection remaining after the warning sign was removed, and the wonder is not that the disease recurred so often but that it did not recur oftener. Of course in such cases

it can make no difference whether there is any disinfection or not so long as the persons in the house are harboring the living and growing germs.

Since 1895 there must have been in scarlet fever at least 1,300 families in which susceptible children remained after the removal of the warning sign. The number of families in which the disease recurred, and the day after the removal of the warning sign on which the disease developed, are shown in the following:

TABLE VI.
SCARLET FEVER.

Day after removal of placard on which disease recurred.

Day.	Number of Instances.	Day.	Number of Instances.
1	1	21	
2	2	22	
3	1	23	
4	2	24	
5	1	25	
6		26	
7		27	1
8	1	28	
9	1	29	
10	1	30	
11	2	31	
12	1	2 mo.	4
13	1	3 "	5
14		4 "	
15		5 "	
16	1	6 "	
17	2	7 "	1
18			
19	1	Total.....	30
20	1		

Of the above there were two instances, one each in the second and third month in which there was no official disinfection. In two instances, on the third and twentieth day it was afterwards discovered that there was a case in the house still desquamating. The 30 instances in which the disease recurred would be at the rate of about one in every 43 families. This is not as often as diphtheria recurs though the

figures are not large enough to be conclusive. It is probable, however, that in Providence diphtheria does tend to recur more frequently than scarlet fever. If so it is doubtless due to the shorter time that isolation is maintained in the former disease. In scarlet fever the period of isolation has never been less than four weeks and during the greater part of the last ten years it has been five weeks and in all cases until desquamation has ceased. In diphtheria, as shown in Table X the period of isolation has been very much less, even when a negative culture was required from every member of the household. If two successive negative cultures were required from the throat and nose of every member of the family in diphtheria, it is probable that the recurrence of this disease would be less than that of scarlet fever. But such a requirement is impracticable for various reasons. One of these is that the public, not seeing the bacilli have little faith in them, while desquamation is something they can see and it appeals to their "common sense" that isolation should be maintained while it continues. In this view the medical profession largely agrees with the public. It is worthy of note in this connection that after return from the hospital, where double throat and nose negatives are required, there are fewer return cases of diphtheria than of scarlet fever.

There have been in scarlet fever since 1895 seven instances in which the disease recurred in other families in the house after the warning sign had been removed. This is almost one out of 190 families, somewhat less than in diphtheria and doubtless for the reason given above. The dates of the sickness in these second families were 2 on the first day after the removal of the placard, 2 on the seventh day, 1 on the fourteenth and 2 during the second month, in one of which no official disinfection was done.

In three out of the 37 instances in which there was a recurrence of the disease in the same or other families in the house there was no official disinfection. It is thus probable

that the chance of recurrence where disinfection is done is not greater than where it is not done.

If to the above 37 cases are added the eight (1896 to 1903) which were removed from home and were taken sick on their return we have 45 instances in which it is possible that there was a recurrence of the disease owing to failure of disinfection. This is not a large number when it is remembered that during the period under consideration there were recorded 3,853 cases of the disease.

VACCINATION.

During the year 1903 the number of persons vaccinated was 2,529. The only public vaccination has been at the Fourth Ward Room on Fountain Street Friday afternoons. The use of humanized virus which had hitherto been chiefly employed, was discontinued early in 1901 and glycerinized virus furnished by the Health Department of the City of New York has since been used. The number of certificates of vaccination issued was 2,891. The following table gives the number of persons vaccinated and the number of certificates issued from 1856 to 1880, from 1881 to 1890, and during each year since that time:

During the year it has been the custom to wash the arm of the child with alcohol and allow it to dry without wiping, before vaccinating. In most cases the arm is previously washed with soap and water before using the alcohol. A fresh piece of sterilized cotton is used for each washing. When there are many children to be vaccinated one or more trained nurses have been employed to prepare the arms. After the vaccination a Mulford paper shield is applied and printed directions are given to remove it the next day.

TABLE VII.

VACCINATIONS.

YEAR.	Persons Vaccinated.	Certificates Issued.
1856-1880	24,142	32,585
1881-1890	28,567	17,525
1891	1,738	2,112
1892	2,440	2,407
1893	1,905	2,359
1894	3,086	2,809
1895	1,511	2,050
1896	1,963	2,536
1897	2,218	2,900
1898	2,157	2,430
1899	2,863	2,650
1900	2,168	2,550
1901	6,234	3,407
1902	10,665	3,558
1903	2,529	2,891
Total, 1856-1903	94,186	84,769

QUARANTINE.

The following is the number of vessels hailed by the signal officer:

1893 (from May 18)	98
1894	82
1895	82
1896	106
1897	90
1898	78
1899	414

1900	91
1901	115
1902	125
1903	111

The following is a list of the vessels boarded by the health officer, and the places from which they sailed:

TABLE VIII.

QUARANTINE.

	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.
British Provinces.....	14	2	0	0	1	0	0	0	0	0	0
West Indies.....	11	14	18	10	9	8	10	10	5	47	29
Italy.....	1	2	2	2	0	1	0	0	0	0	0
South America.....	1	0	0	0	0	0	0	0	0	0	0
Turkey.....	0	0	0	0	1	1	0	0	0	0	0
Russia.....	0	0	0	0	0	1	0	0	0	0	0
United States.....	3	0	0	0	0	1	7	0	0	0	0
Azores and Cape Verd Islands.....	0	0	0	0	0	0	0	1	4	3	2
Africa.....	0	0	0	0	0	0	0	0	0	1	0
Great Britain.....	0	0	0	0	0	0	0	0	0	3	39
Total.....	30	18	20	12	11	12	17	11	9	54	60

The advisability of amending the quarantine regulations to make them conform better to modern conditions and to the Federal laws was carefully considered by the Joint Committee on Ordinances. The rules of the Board of Aldermen, the statutes, and the United States Treasury rules were not entirely in harmony and it was at first not easy to see how they could be made to harmonize without securing an amendment to the statutes. But it appears that the statutes refer both to the examination of vessels and to the quarantining of vessels, the latter presumably meaning their detention during incubation or for purposes of disin-

fection. So far as actual quarantine, or the detention of infected vessels is concerned the statutes and rules seem not to be inconsistent with modern ideas. For the inspection, however, it does not seem necessary that vessels be in all cases compelled to anchor, as provided by statute for vessels subject to true quarantine. In practice it is often at this port found convenient to have vessels anchor for inspection near to the wharves and even in some cases to come up to the wharf. If found infected they could then if necessary be ordered back to the quarantine ground. To render this procedure permissible the following rule was adopted in place of that formerly in force. It was in amendment of Chapter 1 of the Rules of the Board of Aldermen and was adopted March 2, 1903:

Of these 60 were separated from the sick one by the latter's removal on the first day of the disease. 271 were thus separated on the second days, and so on.

Rule 29. The health officer shall make examination of every vessel arriving in the harbor of Providence from any foreign port, and shall grant permit to land persons from said vessels and to unload the cargoes thereof, if in his opinion the public health is not endangered thereby; and no person shall be permitted to leave such vessel, nor shall its cargo be discharged, until such permit be first had and obtained from said health officer; provided that this rule shall not apply to vessels from British North America, not carrying persons or effects of persons non-resident in America for sixty days next preceding arrival; and provided also that the port of departure be free from quarantinable disease. The master of every vessel subject to examination as above provided, shall display a yellow flag as a signal.

Rules 30 and 40 were amended to read as follows:

RULE 30. The health officer may demand such information, and ask such questions as he shall deem necessary or proper, of the captain or commanding officer, or other person on board of any vessel arriving at this port and subject to

examination or quarantine, respecting the condition of such vessel, and the health of the persons on board the same; and if such captain, commanding officer or other person shall refuse to answer any such inquiries or shall evade them, or shall in any way or manner make or cause to be made any false or equivocal statement relative to the state of the health of any person on board such vessel, or shall neglect to report to the health officer any sickness or death that may have occurred on board the same, or shall refuse to sign his written examination taken at the time by the health officer, when requested so to do by said health officer, such captain, commanding officer, or other person, shall pay a fine of not less than twenty-five nor more than two hundred dollars for each offence.

RULE 40. The superintendent of health shall receive the sum of three dollars for each visit made by him to any vessel subject to examination or quarantine, together with his necessary expenses in making such visit, to be paid by the owners, agents or commanders of the vessels visited by him.

CONTAGIOUS DISEASE HOSPITAL.

In 1891 the Rhode Island Hospital began to receive scarlet fever and diphtheria patients in the "Russell Ward," and an ambulance for their transport was purchased the same year. The Russell Ward soon proved inadequate and the contagious, or "city ward" of the Rhode Island Hospital, a description of which may be found in my report for 1896, page 37, was built by the city on the grounds of the Rhode Island Hospital, and was opened January 13, 1896. The ward is maintained by the Rhode Island Hospital, and the city pays \$15 per week for every patient sent to the hospital by this department. During the year there were removed to the hospital under my direction 234 cases, and the total expense to the city for caring for them was \$11,352.56. The following shows the number of cases ad-

mitted since the hospital was opened and also the number of deaths that occurred in the hospital and the amount paid for the care of the patients:

TABLE IX.
COMMUNICABLE DISEASE HOSPITAL.

YEAR.	SCARLET FEVER.		DIPHTHERIA.		MEASLES.		Total Cases.	Expense.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.		
1891.....	6	0	4	1			10	\$486 43
1892.....	13	2	4	1			17	1,553 36
1893.....	20	1	5	1			25	1,267 77
1894.....	27	2	4	2			31	2,297 07
1895.....	37	0	27	3			64	3,614 78
1896.....	35	2	103	10			138	4,679 64
1897.....	22	2	57	6			79	4,924 35
1898.....	21	2	70	6			91	3,404 74
1899.....	40	2	47	3	6	0	93	4,390 06
1900.....	49	1	87	10	21	0	157	6,943 61
1901.....	37	2	115	20	1	0	153	5,039 58
1902.....	24	4	80	11	1	0	106	4,442 18
1903.....	64	9	147	18	23	0	234	11,352 56
Totals.....	395	29	750	92	52	0	1,197	54,396 13

Besides the above, in 1902, sixteen cases of diphtheria and four of scarlet fever, and in 1903, twenty-six of diphtheria and five of scarlet fever developed in the hospital, and in 1902, five cases of diphtheria. In 1902 five cases of diphtheria and 1903 two of diphtheria and one of scarlet fever were brought to the hospital from outside the city.

When the hospital was first opened, it was not very popular. There was considerable difficulty in persuading people to go to it or to send their children. But the prejudice against hospitals in general and the contagious ward in particular has largely disappeared and the public is now

anxious to enjoy the great advantages afforded by removal to the hospital of cases of communicable disease. For three or four years owing to lack of accommodations and lack of funds, no effort has been made to induce patients to go to the hospital, but the requests for removal there have increased very rapidly and the popularity of the hospital is likely to increase still more rapidly in the near future. For some time the present ward has been badly crowded and additional room is sorely needed. Unfortunately the building erected by the city in 1896 has accommodation for only two diseases. Frequently there is urgent need of sending other communicable diseases to the hospital, and not infrequently a combination of two diseases in the same person is found, and often it is impossible to decide upon the correct diagnosis in the early stages of the disease. To meet these emergencies a number of rooms completely isolated from one another are a necessity. It is imperative that something should be done at once to provide additional hospital facilities for communicable diseases. There are comparatively few well-to-do persons who would care to make use of the contagious disease hospital. Indeed, the charge of \$21 per week which is made for private patients is prohibited except for a very small number. The majority of patients are poor or in very moderate circumstances and unable to pay at all. If required to pay anything they could not or would not go. But in many instances it is very desirable for the community that they should go. They must be treated much more liberally than persons sick with non-contagious diseases. It makes no difference to the public whether the latter go to the hospital or not, but it does make a difference in contagious diseases. The city must expect to spend money for the care of contagious disease, when it would not if the same persons were sick with something else. This problem is very different from that of the care of the ordinary sick poor.

There are several advantages in the removal of the patient to the hospital in communicable diseases. It is often of

very great benefit to the patients. Persons in lodging houses, on board ship, in cheap boarding houses or in the families of the very poor, cannot receive proper nursing, and often lack the necessities of life. In diphtheria antitoxin sometimes cannot be obtained for the poor and intubation, which is often needed, cannot be done unless a competent nurse is present to look after the patient. The cases that are sent to the hospital, are, on the average, much more severe than those cared for at home, particularly in diphtheria, but the death rate in the hospital remains about the same in diphtheria as among the much milder cases treated outside. In scarlet fever the death rate in the hospital is higher than outside because no such specifics as antitoxin and intubation are available and the class of cases received is severe.

It is of advantage to the family in many cases to have the patient sent to the hospital because it permits wage earners to continue at their work. Often if the patient remains at home the sole support of the family is lost and application must be made to the Poor Department for assistance.

Removal to the hospital is of advantage to the family in removing the source of infection and thus preventing the extension of the disease to other members. The following data relate to families from which patients went to the hospital and in which there still remained susceptible children:

TABLE X.

BENEFIT TO THE FAMILY OF REMOVAL TO THE HOSPITAL.

DIPHTHERIA.						SCARLET FEVER.					
Day of sickness on which removal took place.	Number left at home.	Ages of those left at home.		Day after removal on which sickness developed.	Number taken sick.	Day of sickness on which removal took place.	Number left at home.	Ages of those left at home.		Day after removal on which sickness developed.	Number taken sick.
		Age.	Number.					Age.	Number.		
1	60	Under 1	46	1	7	1	20	Under 1	28	1	1
2	271	1	63	2	10	2	67	1	20	2	4
3	255	2	46	3	9	3	113	2	23	3	4
4	286	3	51	4	6	4	79	3	24	4	1
5	181	4	45	5	3	5	66	4	15	5	2
6	137	5	61	6	3	6	17	5	21	6	....
7	75	6	59	7	1	7	7	6	16	7	1
8	60	7	50	8	5	8	3	7	22	8	1
9	30	8	49	9	1	9	....	8	16	9	....
10	15	9	47	10	3	10	1	9	22	10	1
11	15	10	44	11	....	11	2	10	15	11	....
12	10	11	38	12	1	12	4	11	11	12	....
13	10	12	39	13	....	13	....	12	10	13	2
14	7	13	28	14	1	14	....	13	13	14	1
15	5	14	30	15	....	15	....	14	10	15	....
16	....	15	26	16	1	16	....	15	9	16	....
17	....	16	25	17	....	17	....	16	6	17	....
18	3	17	23	18	....	18	4	17	8	18	1
19	....	18	13	19	2	19	2	18	3	19	....
20	....	19	17	20	....	20	..	19	5	20	....
21	....	20	10	21	....	21	....	20	2	21	....
22	....	Adults	610	22	1	24	....	Adults	88	24	1
26	....			26	1	25	....			25	1
						26	2			26	....
	1420		1420		55		387		387		21

Of these 60 were separated from the sick one by the latter's removal on the first day of the disease, 271 were thus separated on the second day, and so on.

The preceding table shows that from the time the hospital was opened up to the end of 1903 there were left behind in families from which diphtheria patients were removed to the hospital, 1,420 persons. The age distribution of these persons is given in the fourth column. From the data given in tables XIV, and XIX, it is possible to calculate approximately the number of these persons who would probably have been sick if the patient had remained at home. Thus table XIV shows the whole number likely to be attacked in infected families, including the initial cases. But this particular inquiry relates only to those persons remaining after the initial case has been removed to the hospital. As the initial cases make up about 60 per cent. of all cases the ratios in the last column in table XIV must be reduced by this amount. Applying these modified ratios it is found that the number of the 1420 persons remaining, likely to be attacked, is 160. This is the number which it was hoped to save by the removal of the patient to the hospital. But it is evident that the longer the removal is delayed the less likely are the others to be protected. I have attempted to allow for this, somewhat crudely, as follows:

In table XIX is given the percentage of secondary cases occurring on different days of the sickness of the primary cases. If a member of the family escapes the disease the first day the chance of his contracting it afterwards is diminished by 6.1 per cent. If he escapes it the second day the chance of his contracting it is diminished by 11.2 per cent. From the second column in table X we can find the percentage of instances in which the removal to the hospital took place on each day of the sickness. Applying the ratios in the last column of table XIX to these figures it is found that owing to the delay in removing the patient to the hospital the usefulness of removal was diminished about 25 per cent. The probable number of persons who

would have the disease if there had been no removal, that is the number that it was proposed to protect by the removal was 160, but as is seen above owing to delay in the removal of the patient this possible saving of cases must be reduced by 25 per cent. thus making 120 the number which might be protected, or in other words which could reasonably be expected to become sick after the date of the removal of the patient to the hospital. This is one in each 11.8 of the persons exposed. If this method be applied to the children (all under 21 years of age) only, it would be found that the theoretical chance of their contracting the disease is one in 7.7. But actually, 55 of these persons were taken sick, all of them children, which is at the rate of one in 25.8 of all ages and one in 14.8 of children. Thus it is seen that removal to the hospital as ordinarily practiced in Providence decreases the chance of the other members of the family contracting the disease by about one-half. In other words they are twice as likely to contract the disease if the initial case remains at home as if it were removed to the hospital. At first sight the gross figures would appear to indicate that greater advantage would accrue to the other members of the family by the removal of the patient to the hospital, but it can scarcely be greater than indicated by the ratio just given.

A similar treatment of the data concerning scarlet fever gives similar results. In diphtheria all members of the family were considered susceptible, but in scarlet fever only those who had never had the disease which is the reason for the number of persons being relatively small than in the diphtheria cases. In all 387 susceptible persons remained after the removal of the cases to the hospital, after correcting for age distribution it was probable that 63 of these would be attacked. Again making a correction for the day on which the removal took place, it was found that this number should be reduced by about the same ratio as in diphtheria, namely, 25 per cent., making the maximum number of cases to be looked for 47 or one in 8.3.

The number of cases actually occurring was 21 or one in 18.4. For children the theoretical number to be attacked was one in 6.5, but the actual number attacked was one in 15.6. As in diphtheria so in scarlet fever, the chances of the rest of the family contracting the disease is about half as much when the patient is removed to the hospital as when he remains at home. In both diseases the chances of escaping the disease would be increased about 25 per cent. if the removal should be made on the first day of the disease.

In the preceding consideration of the subject "return" cases have not been taken into account. By return cases is usually meant those cases which come back from the hospital before they are free from infection and so infect others. There have not been very many such cases in Providence. Thus of the 750 cases of diphtheria which have been removed to the hospital there are five instances in which it is possible that infection was brought back with the patient. In 1896 (273 Chalkstone Ave.) a case occurred in another family 26 days after the return of the patient. A single negative from the throat only was at this time required for discharge. There were other cases in the neighborhood. In 1897 (South St.) a case returning from the hospital apparently infected another which developed 5 days later. There was in the first case a nasal discharge which however when examined after the second case, failed to show any diphtheria bacilli. In 1900 (35 Lorimer Ave.) a patient returned from the hospital and another case developed the next day. In 1891 (172 Lippitt St.) the patient returned Aug. 8, after a single negative culture from throat and nose, and a second case developed Sept. 3. Another case developed in December, long after disinfection, and it is very probable that the bacilli had remained in some member of the family all the time. In 1902 (Eddy St.) a case returning Feb. 1, was followed by cases on Feb. 22 and following days. As the patient had been at home ten days before going to the hospital and as no cultures were taken from the family and two throat

and nose negatives were obtained from the patient, it is more likely that the infection had remained with the family rather than that it was brought back with the patient. In the case which occurred in 1903 (47 Helme St.) the patient went to the hospital from 13 Helme Street, March 11, and was discharged after three successive negative cultures from throat and nose on April 13. No cultures were taken from other members of the family. The patient was again taken sick with diphtheria on April 30. Since 1898, with rare exceptions, two negative cultures from the throat have been required for discharge from the hospital, and since 1899, two negatives from both throat and nose. It is not probable that more than two and perhaps only one of the above were really "return" cases.

Of the 395 cases of scarlet fever removed to the hospital there have probably been nine return cases. The time that these cases remained in the hospital was from the beginning of the sickness, 35, 38, 36, 40, 35, 28, 49, 40 and 40 days, and they were all said by the hospital physicians to be free from desquamation at the time of discharge, though one of the cases was found to be desquamating a week later. There can be no chance of any of these, or of the diphtheria cases carrying the infection in their clothing or on the surface of the body, as the bathing and disinfection is too thorough for that. The date of attack of the secondary cases after the return of the patient was 19, 17, 16, 7, 4, 5, 2, 4 and 3 days.

Of the three return cases in 1903, one was from 11 Greene Street. The patient went to the hospital March 8 and returned April 15. Another case developed May 4, and went to the hospital and returned (to its home out of the city on June 13. A third case developed on July 1. Another case in the Children's Home will be again referred to. Another interesting case which occurred in 1903, was that of a boy who went to the hospital with diphtheria, but was discharged in 18 days while desquamating with scarlet fever, this not being recognized at the time. Two days later another case of scarlet fever developed in his family.

INFECTIOUS DISEASES, HISTORY OF THEIR PREVENTION.

Previous to July 1, 1856, there was no organized health department in Providence. At various times there had been outbreaks of smallpox, cholera and yellow fever, and special committees had been appointed to deal with them. Between these outbreaks very little was done in the prevention of disease. Owing to an outbreak of cholera in 1854, public attention was called to the advisability of establishing a permanent health department. The office of Superintendent of Health was created and Dr. Edwin M. Snow, who had devoted great attention to the study of cholera during its prevalence, was its first incumbent and remained in office until 1884.

Such being the origin of our health department it was but natural that its work should at first be chiefly devoted to the prevention of nuisances and the removal of filth, since cholera was known to be dependent to a large degree on failure of drainage, and the consequent pollution of sources of water supply. Typhoid fever was also believed to be largely dependent on similar conditions. The municipal cleansing which followed was doubtless of value, for cholera has since then only appeared in the city once and at that time caused only fourteen deaths. Dr. Snow earnestly advocated the introduction of a pure water supply and the construction of a system of sewerage as well as many other sanitary improvements, but it was many years before any of these recommendations were carried out.

Three important steps have been taken to check the prevalence of typhoid fever in this city. The first of these was the introduction of a public water supply. Although this was not without reproach and has been the cause of sickness, it has been on the whole much better than dependence upon wells. The second step was the construction of sewers and the abolition of privy vaults and cesspools. The third undertaking was the construction of a filtering plant

which will soon be completed and will if properly managed, remove all danger of typhoid infection through our water supply.

During Dr. Snow's administration a smallpox hospital was built, which, though not handsome, is still a useful and comfortable building. The most approved methods of isolation, disinfection and vaccination were employed to combat this disease and the result was a marked decrease in its prevalence as compared with former years. In the most severe outbreak of the disease which occurred during the century Providence suffered less than many other American cities.

Although medical inspection for the common contagious diseases was urged, and hospital accommodation was asked for, nothing was done along these lines till the latter part of 1883 when an inspector was appointed to look after communicable diseases. Until that time no isolation was attempted and no restriction placed upon school attendance from families where there was scarlet fever or diphtheria. Intercourse with infected families was free except as restricted by the advice of the attending physician or the views of the public, and when physicians only partially recognized the contagiousness of scarlet fever and diphtheria there was very often no restriction whatever. Since 1884 the work of this department has been largely devoted to the restriction of these two diseases. The sanitary inspector appointed in 1883, at first merely looked after nuisances in infected houses, but in 1884 he excluded from school all children in the infected house.

On April 1, 1885, a most important step was taken in the appointment of a medical inspector for communicable diseases. Dr. Gardner T. Swarts filled this position with great energy and ability for nine years and at a ridiculously small salary. At first he also fumigated with sulphur all infected houses when this was desired. He also distributed printed directions for the management of these diseases.

During this year explicit rules were adopted in regard to isolation, and infected houses were placarded when the occupants were willing, which was usually the case. In 1887 placarding was made compulsory and public funerals were forbidden. In 1889 steam disinfection was begun and a small ward at the Rhode Island Hospital was made available for these diseases. In 1891 the question of the availability of the cultural method of diagnosis in diphtheria was investigated by Dr. Swarts, who had, in 1889, established a bacteriological laboratory in the city hall at his own expense, but the method was not at that time considered by us to be sufficiently perfected. The use of cultures was, however, introduced in 1895, being offered to the whole State by Dr. Swarts who was then Secretary of the State Board of Health. In 1896 the present scarlet fever and diphtheria hospital was built, wage earners in infected families were generally kept at home and the strictness of isolation increased. In 1897 negative cultures were required in diphtheria from both sick and well before the placard was removed. In that year formaldehyde disinfection was introduced. In general it may be said that compulsory isolation, and disinfection at public expense have been the main features of the fight against these two diseases, and that from 1884 to 1900 the strictness of isolation and the thoroughness of disinfection progressively increased. It is well to see whether a decrease in these diseases has followed the adoption of these measures. If the tables and diagrams given on the following pages be examined it will appear that there has been a very appreciable diminution in the death rate from scarlet fever and diphtheria. That some of this improvement, particularly in scarlet fever, is due to a milder type of the disease is not unlikely, and in diphtheria it is certain that during the past five or six years the death rate has been somewhat reduced by the use of antitoxin, though this remedy has not been as freely used in Providence as in many other cities. But making some

allowance for these two factors it must be admitted that there has been during the past twenty years a decreased prevalence of these diseases. That this has been due to the methods of management urged and enforced is extremely probable. It is instructive in this connection to compare the mortality from scarlet fever and diphtheria with that from measles and whooping cough. In the former diseases much has been done to secure isolation and disinfection, but the latter diseases have, for various reasons, been allowed to run pretty much their own course. By examining the diagrams it will be seen that the mortality from measles and whooping cough has not changed much in the last 48 years, while in scarlet fever and diphtheria it has during the past twenty years during which restrictive measures have been enforced been much less than in the preceding period. Moreover, similar measures in other cities and towns have produced similar results.

No claim is made that these methods have accomplished all that ought to be accomplished, or that they are the best methods that can be devised. On the contrary, there is every reason to expect a progressive improvement in the mode of controlling contagious diseases. As long as our knowledge of these diseases continues to grow so long will there be a progressive improvement in our methods of fighting them. So far as these methods are based upon well substantiated facts they may be relied upon as reasonable and useful, and when they depend upon theory or guesswork there is always room for criticism and improvement. Progress is to be expected in sanitation as it is in transportation and manufactures.

INFECTIOUS DISEASES, CASES AND DEATHS.

There were 369 deaths from diarrhoeal diseases in 1903, or 52 more than in the preceding year.

There were 6 deaths from malarial disease in 1903, while in 1902 there were 7.

There were 371 deaths from phthisis in 1903, or 3 less than in the preceding year.

The number of deaths from scarlet fever was 25, or 16 more than in 1902.

There were no deaths from smallpox in 1903 and 8 in 1902.

There were 37 deaths from typhoid fever, 1 more than in 1902.

The number of deaths from diphtheria was 74, or 11 more than in the preceding year. There were also 11 deaths from membranous croup.

MEASLES.

Physicians are now required to report this disease, but comparatively few cases are reported, due chiefly to the fact that in measles the doctor is rarely called. The number reported has been as follows:

1896.....	278	1900.....	901
1897.....	84	1901.....	41
1898.....	48	1902.....	43
1899.....	451	1903.....	637

Previous to 1885 nothing was done officially, and very little in any other way, to prevent the spread of measles. Of course children sick with measles stayed out of school, but they usually returned in a week or ten days, or as soon as they felt able. In 1885 all children living in a family where there was measles were excluded from school, but this rule was not well enforced, as cases of this disease were not reported. In 1896 reports were required, and for several years effort was made by the teachers to carry out the rule. In 1902 only those children in the family who had not had measles were excluded. This method is now followed. It is believed that there is very little danger of carrying the virus of measles in clothing and the only reason for excluding those in a family where there is measles, but who have never had it, is that they probably will have it, and are certainly very infectious during the three or four days before the eruption appears. It is because children are infectious

before the disease is recognized that all measures taken against this disease are well-nigh useless. The death rate from measles has not been reduced in Providence or in any other large American city. In fact, it will be seen from the diagrams that measles has increased, rather than diminished. This has been the experience of other cities, and measures as stringent as those employed against scarlet fever have had no effect in decreasing the disease. Nevertheless, school regulations of some kind are necessary. A child actually sick would not be tolerated in school and a time for its return must be fixed. At present it is two weeks from the appearance of the eruption. This exclusion of the sick child and also of the other children in the family who have not had the disease seems to meet with general approval and is comparatively easy to enforce.

The accompanying full page diagram shows the number of deaths from measles for each year for the last forty-nine years, and also the death rate for each 100,000 living. The latter is also represented graphically.

DIAGRAM I.

MEASLES.

Deaths per 100,000 living for each year for 49 years, 1855 to 1903.

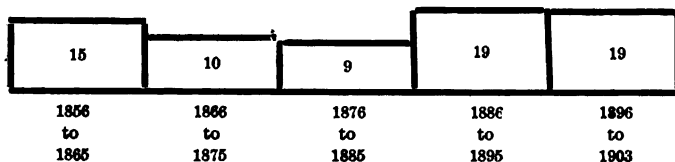
Number of Deaths.	Ratio per 100,000.		Year
1	2.09		1855
1	2.05		1856
2	4.04		1857
40	8.08		1858
.....	0.00		1859
.....	0.00		1860
6	11.84		1861
1	1.91		1862
16	30.17		1863
7	13.00		1864
7	12.82		1865
9	16.15		1866
.....	0.00		1867
4	6.23		1868
6	9.01		1869
16	23.22		1870
1	1.38		1871
7	9.31		1872
28	35.79		1873
4	4.14		1874
.....	0.00		1875
.....	0.00		1876
2	1.99		1877
50	48.88		1878
.....	0.00		1879
3	2.86		1880
25	22.80		1881
4	3.49		1882
8	6.83		1883
7	5.95		1884
8	6.77		1885
7	5.83		1886
90	74.37		1887
2	1.62		1888
14	11.02		1889
31	23.45		1890
4	2.96		1891
10	7.24		1892
63	45.00		1893
5	3.49		1894
40	27.49		1895
19	12.66		1896
18	11.68		1897
3	1.85		1898
27	16.07		1899
97	55.24		1900
3	1.68		1901
6	3.31		1902
89	48.10		1903
791	15.56		49 years

The following diagram shows the number of deaths from measles, per 100,000 living, by periods, for forty-eight years:

DIAGRAM II.

MEASLES.

Deaths per 100,000 living:



WHOOPIING COUGH.

Reports of this disease are not required of physicians. Its prevalence can therefore only be estimated from the number of deaths. From the diagrams it appears that for forty years there has been very little change in the amount of whooping cough present in the city. The experience of all health officers is that the most stringent measures have little effect in decreasing the prevalence of this disease. The reason for this is similar to that which makes the restriction of measles difficult. The disease is infectious before the whooping begins and probably continues to be so in some cases after whooping has ceased. The only practicable or reasonable rule at present seems to be to simply exclude the child from school during the period it is whooping. It will be seen from the diagrams that both measles and whooping cough tend to appear in marked outbreaks four or five years apart. The reason for this is not well understood. It is usually explained on the ground that these diseases prevail so extensively that nearly every susceptible child in the community is attacked and four or five years must elapse before another group of children reach the susceptible age. It is not unlikely that this is the most important factor in the periodicity of the disease.

DIAGRAM III.

WHOOPIING COUGH.

Deaths per 100,000 living for each year for 49 years, 1855 to 1903.

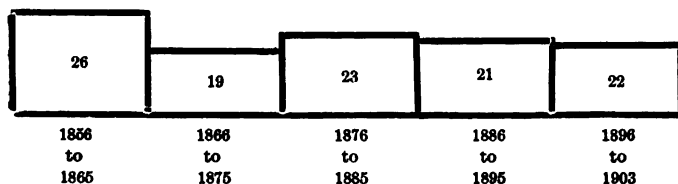
Number of Deaths.	Ratio per 100,000		Year.
3	6.27		1855
10	20.52		1856
2	4.04		1857
7	14.15		1858
22	43.91		1859
19	37.50		1860
25	49.34		1861
3	5.74		1862
6	11.31		1863
10	18.58		1864
31	56.78		1865
8	14.36		1866
2	3.51		1867
13	20.26		1868
16	24.05		1869
24	34.83		1870
10	13.88		1871
10	13.31		1872
18	23.01		1873
33	34.21		1874
8	7.94		1875
35	34.47		1876
16	15.84		1877
43	42.03		1878
15	14.48		1879
11	10.49		1880
40	36.49		1881
40	34.97		1882
4	3.41		1883
28	23.82		1884
24	20.32		1885
23	19.16		1886
12	9.91		1887
28	22.76		1888
44	34.64		1889
30	22.70		1890
53	39.25		1891
8	5.79		1892
11	7.85		1893
53	37.06		1894
27	18.56		1895
24	16.00		1896
16	10.38		1897
59	36.41		1898
47	27.97		1899
45	25.62		1900
13	7.30		1901
29	16.02		1902
77	41.62		1903
1,135	22.33		49 years.

The following diagram shows the number of deaths from whooping cough, per 100,000 living, by periods, for forty-eight years:

DIAGRAM IV.

WHOOPIING-COUGH

Deaths per 100,000 living.



TUBERCULOSIS.

On Jan. 15, 1903, the Board of Aldermen ordered that tuberculosis should be added to the list of notifiable diseases. The attention of physicians was called to the new rule by the following circular:

HEALTH DEPARTMENT, OFFICE SUPERINTENDENT OF HEALTH,
CITY HALL, PROVIDENCE, Feb. 21, 1903.

DEAR DOCTOR:

By a recent rule of the Board of Aldermen, physicians are required to report all cases of tuberculosis. Please notice that this includes all forms of tuberculosis, meningeal, intestinal, osseous, etc., as well as pulmonary.

It is recognized that physicians have many patients whom they are regularly attending that they would not wish a health department inspector to visit. It is my intention that this wish shall be respected, and indeed there is rarely any need of official advice to a patient who is receiving regular medical attendance. Therefore, if you will write "Please not visit" on the card when the case is reported, no visit to the patient will be made by the Medical Inspector.

There are several reasons why this tuberculosis work is now undertaken:

1. For the purpose of getting more information as to the manner in which the disease is transmitted. It is variously claimed that tuberculosis is contracted through the food, particularly milk; through breathing germ laden air; or directly by kissing, the use of cups, spoons,

pencils, pipes, etc. It seems to me that our knowledge of these matters is not very accurate and that a careful study of cases in Providence is likely to give us valuable information as to the etiology of this disease, as it has for diphtheria, scarlet fever, and typhoid fever. At present, many are needlessly alarmed by the contagiousness of this disease. If we can find out more definitely the main avenue by which it spreads, this fear may be somewhat allayed and preventive measures may be made more effective. Moreover, we do not know exactly how much importance should be attached to the alleged hereditary susceptibility.

2. Many cases of pulmonary tuberculosis now careless with their expectoration might be taught to be careful, and the visits of an official inspector are a means to this end. Many cases, on the other hand, receive ample instruction from their regular medical attendant and do not need further instruction.

3. A printed circular is a good method of giving instruction and one has been prepared which the Inspector will leave with each family visited. They will also be furnished to physicians if desired. (One of these circulars is enclosed.)

4. Paper spit cups for use in the sick room are furnished by the State Board of Health and will be distributed by this department.

As regards disinfection there is little need for this department to do anything; soap and water as applied by the laundress and house-cleaner are sufficient. If a consumptive has been careful of the sputum, there is little need of disinfection or even cleansing. If the patient has been careless with the sputum for months and years, family and friends who have been exposed all this time will not be saved by a little sulphur or formalin after the patient is dead. The fresh germs daily given off during the sickness are the ones to be feared, not the few dried ones that may possibly survive after the patient's death.

Enclosed is a blank for reporting such cases as you may have recently seen, or now have in your care. Hereafter, cases occurring in your practice may be reported on the ordinary postals for contagious disease, or by telephone.

Yours truly,

CHARLES V. CHAPIN,

Superintendent of Health.

The directions to consumptives which were to be distributed are as follows. They are very similar to those issued by the Board of Health of Brookline, Mass.:

DIRECTIONS FOR THE SICK.

Persons who have pulmonary consumption or tuberculosis should be out of doors as much as possible. When indoors spit only into a cuspidor or a special cup or into a paper that can be burned before it dries. Never spit upon a floor or sidewalk.

Keep the fingers out of the nose and mouth. Do not let them become

DIAGRAM V.

if infection of others is to occur at all, there are nine hundred and ninety-nine chances in a thousand that it will occur before the death of a patient. What is needed is the

out or cough as much as possible. When unable spit into a spittoon or a special cup or into a paper that can be burned before it dries. Never spit upon a floor or sidewalk.

Keep the fingers out of the nose and mouth. Do not let them become

soiled with expectoration. Do not put pencils, money, pins, or anything of that kind in the mouth.

Wash the hands frequently with hot water and soap. Turn the face aside when coughing, sneezing or talking, if facing another person, as the germs are present in the fine spray that is given off under such circumstances.

Kissing by tubercular patients should not be permitted. A tubercular patient should not be allowed to sleep in the same bed, or even in the same room with another person. If possible, the patient should occupy a large, airy and sunny room, with windows open day and night, a measure which greatly assists in arresting the disease.

No one should use forks, spoons, cups and similar articles used by the patient, until they have been thoroughly washed. No carpets or floor rugs should be used in the patient's bedroom. Keep the room very clean.

These directions if faithfully followed, will lessen the danger of infection to the family, and will tend to promote the recovery of the patient.

The main thing is to take care of the expectoration as if it were a poison.

PROVIDENCE, February, 1903.

A considerable number of cases were immediately reported by their attending physicians but the reports soon began to fall off, and, by the end of the year, practically none were being received. In all 177 cases were reported, all but two or three of which were the pulmonary form. In the majority of these the attending physician expressed a wish that the patient should not be visited by an inspector from this department. The physicians, however, are quite ready to make use of the circular of directions. Sputum cups were distributed to quite a number, but by no means the majority. Disinfection was done on request in thirty-four instances, as shown in Table IV.

Probably with a little effort on the part of the department official disinfection could be secured after nearly every death. In homes where no care whatever has been taken of the sputum for months, as soon as death occurs, disinfection is asked for in hope that this official act can atone for long continued sanitary sin. In such cases, if infection of others is to occur at all, there are nine hundred and ninety-nine chances in a thousand that it will occur before the death of a patient. What is needed is the

strictest cleanliness throughout the disease. The reason why I have not strongly urged disinfection after all deaths from this cause, is because it seems to me that it only encourages people in the error of thinking that the neglect of all precautions during the sickness can be made good by a dose of formaldehyde.

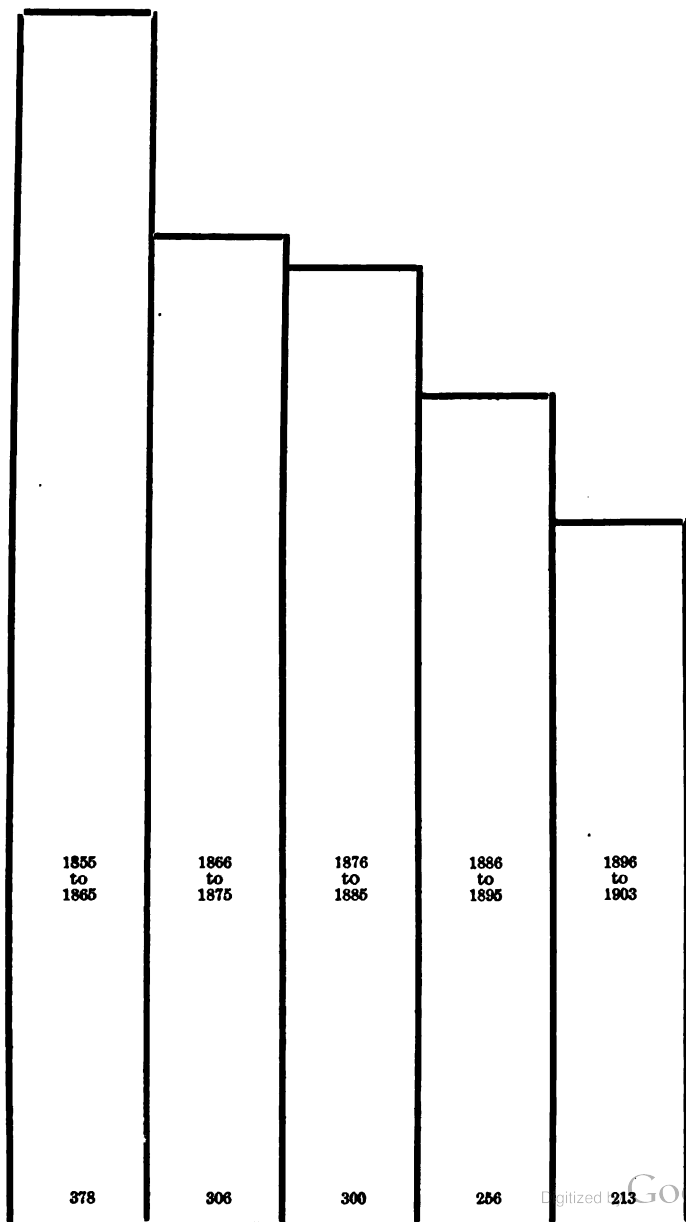
I had wished to collect certain data in regard to this disease for the purpose of studying its mode of infection, but under the circumstances very few were obtained. In only 58 cases were the report blanks filled out by the inspector. In 34 of the families visited there had been only one case, but in the other 24 families in which there were 194 persons, blood relations of the patient, there had been previously 38 cases. This indicates, what of course has long been recognized, that the danger of infection in the family is very great. Of the 16 members of these families who were not blood relations, only one had become infected. As many of these were boarders who would not come in such close contact with the patient, and as many had not been long in the household, this small proportion is not surprising. Two of the 58 cases investigated probably contracted the disease at their place of business.

The diagrams here given illustrate very clearly the great and rather steady decrease which has taken place during the last 49 years in the death rate from consumption, the chief of tubercular diseases. Little credit, however, for this, can be given to the health departments, to physicians, or to the conscious efforts of the patients or their families. Long before the contagiousness of the disease had been established the improvement began, and it does not seem to have been accelerated by that discovery. It is true that the proper care of the sputum was taught by circulars well distributed, many years ago, but even now proper measures are rarely carried out by patients or their families. The decrease in consumption is very gratifying, but unfortunately we are yet very much in the dark as to its causes.

DIAGRAM VI.

PHTHISIS.

The following diagram shows the number of deaths from phthisis, per 100,000 living, by periods, for 49 years:



Beside measles and phthisis, which have been referred to, physicians are required to report the communicable diseases named below, but sometimes neglect it. The following is the number of cases discovered by the inspector, not reported by the physician, since 1890; the data previous to 1891 may be found in the report for 1898:

YEAR.	Scarlet Fever.	Typhoid Fever.	Diphtheria.
1891.....	6	7	9
1892.....	6	6	1
1893.....	11	9	2
1894.....	24	12	1
1895.....	18	13	8
1896.....	6	13	10
1897.....	5	12	6
1898.....	11	33	6
1899.....	2	0	2
1900.....	4	25	7
1901.....	0	21	7
1902.....	4	24	8
1903.....	9	14	13

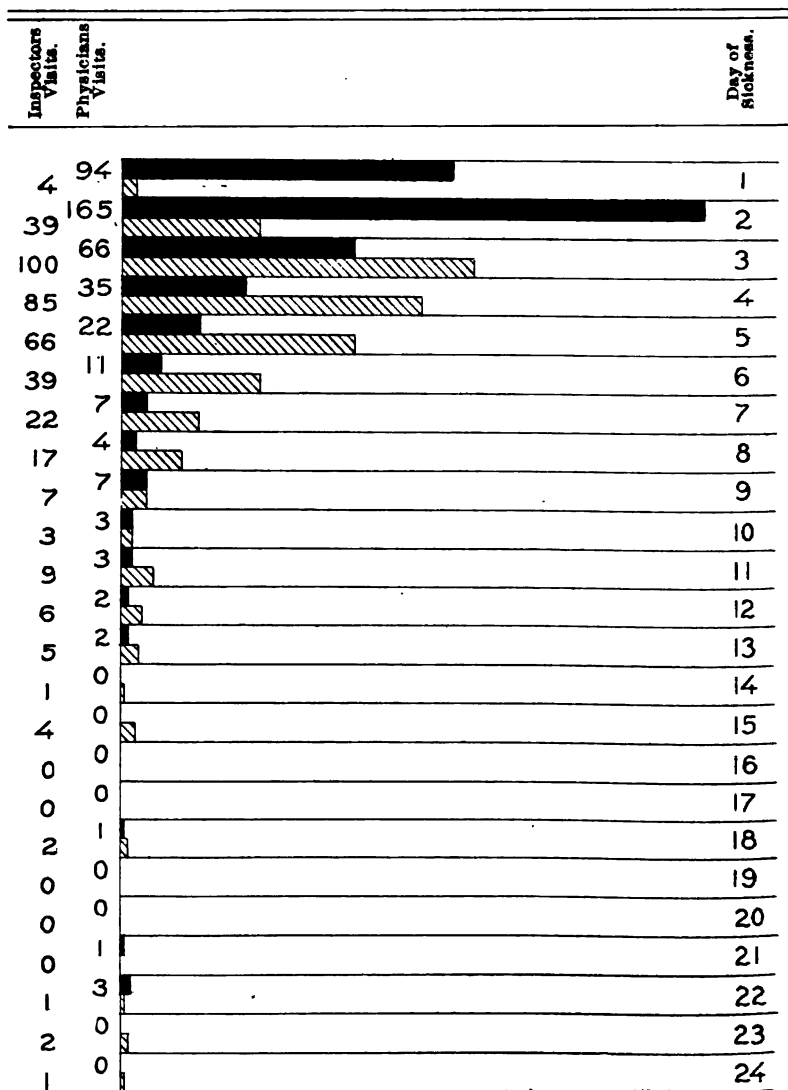
In addition to the above, during 1903, eleven cases of scarlet fever, and three of diphtheria were discovered by the medical inspector where there was no physician in attendance. Of the 74 cases of smallpox in the last 20 years 23 or 31 per cent. were not under the care of a physician, but were discovered in various other ways.

It is of interest to know how promptly cases are reported and how soon they are visited by the medical inspector. These data were noted in many instances in 1896, 1898 and 1899, and are here presented in graphic form.

The following diagram shows the day of the disease on which the physician made his first visit in diphtheria, and also the day of the disease on which the inspector from this department made his visit and placarded the house. The length of the dark line shows the number of instances in which the visit of the physician was made on the day indicated, and the length of the light line indicates the number of instances in which the inspector made his visit on the day indicated. The figures for each are given to the left of the diagram. The data from which this diagram was made were taken from unselected cases from 1896 to 1899.

DIAGRAM VII.

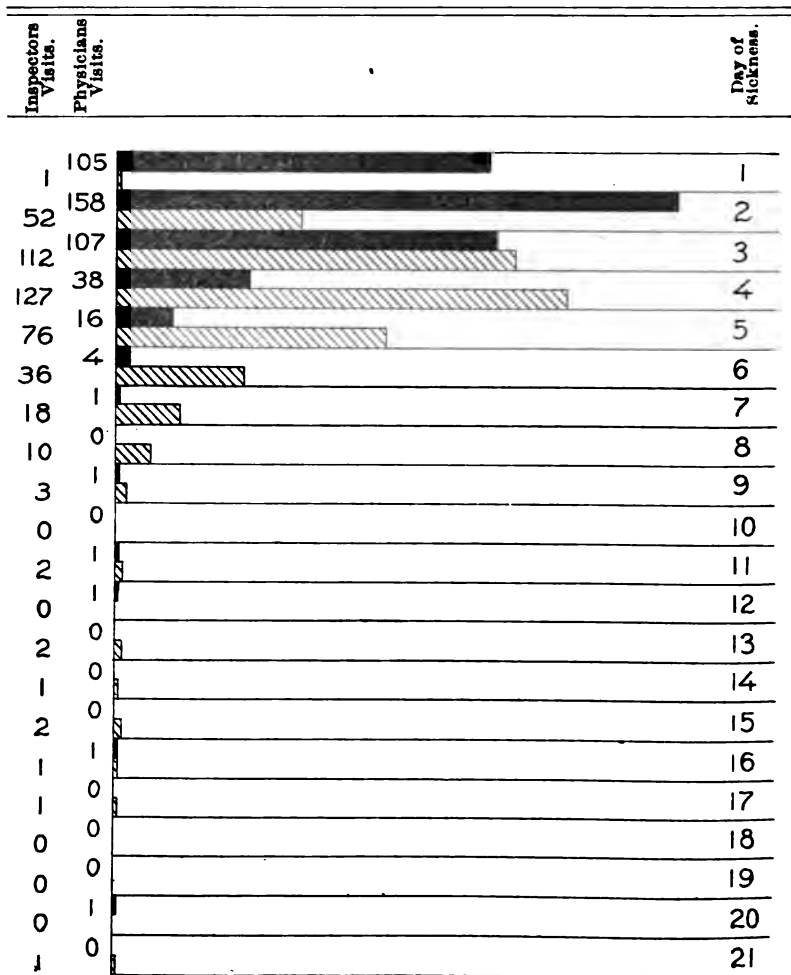
DIPHThERIA.



It may be seen from the above that a very large number of cases are visited by the physician early in the disease, and are promptly reported by him. Yet, 23 per cent. were not visited until after the third day, and a little over 5 per cent. only in the second week of the sickness. Of course, in most cases this is owing to the mild character of the attack, the child's parents not recognizing the disease and not thinking the child sick enough to require medical attendance. It is often found that these unrecognized cases have infected others, and it is probable that the disease is spread more by such cases than by the much larger number of cases which are recognized early in the sickness.

The following diagram shows the day of the disease on which the physician made his first visit in scarlet fever, and also the day of the disease on which the inspector from this department made his visit and placarded the house. The length of the dark line shows the number of instances in which the visit of the physician was made on the day indicated, and the length of the light line indicates the number of instances in which the inspector made his visit on the day indicated. The figures for each are given to the left of the diagram. The data from which this diagram was made were taken from unselected cases from 1896 to 1899.

DIAGRAM VIII.



In scarlet fever 85 per cent. of the cases are visited by the physician during the first three days of the sickness and only a little over 1 per cent. after the first week. It would thus appear that cases of scarlet fever are a little more promptly visited and reported than are cases of diphtheria. Probably the difference is really greater than it appears, for while in scarlet fever the onset is usually sudden and the characteristic sign, the rash, appears early, in diphtheria the onset is often slow and the sore throat may not be noticed for several days. Thus the onset of the latter disease is often earlier than stated by the family. In both diseases it not infrequently happens that a mild case is recognized, only when subsequent and more characteristic cases develop in the same family.

It will also be noticed that very few cases were visited by the inspector on the same day that they were first seen by the physician. The promptness of inspection is probably much greater now than it was five or six years ago. The majority of cases are now reported by telephone soon after they are seen by the physician and it frequently happens that the first visit of the physician, the report of the case and the placarding of the house, all occur on the same day.

The following pages are devoted to the consideration of those diseases, the notification of which by physicians is fairly complete:

TYPHOID FEVER.

The following table shows the number of cases and deaths for each month during the last nineteen years, and the number and ratio of cases and deaths each year during the last twenty years:

TABLE XL TYPHOID FEVER.

YEAR.	JAN.		FEB.		MAR.		APRIL.		MAY.		JUNE.		JULY.		AUG.		SEPT.		OCT.		NOV.		DEC.		Total Cases.	Total Deaths.	Ratio of Deaths to Cases.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.					
1884.....																								122	52	42.62	
1885.....	6	3	7	4	8	2	7	2	5	4	5	3	2	2	6	4	15	6	8	5	11	8	4	1	84	44	52.38
1886.....	6	3	5	2	5	5	5	5	3	3	4	1	12	6	24	8	16	11	13	5	9	6	104	53	50.96		
1887.....	5	6	1	3	4	3	3	3	2	2	2	3	1	8	10	3	9	7	18	2	10	2	63	39	59.09		
1888.....	9	5	2	4	3	3	3	3	2	6	2	1	13	5	20	8	23	9	17	15	14	4	403	103	25.55		
1889.....	35	14	8	6	2	7	9	6	1	1	2	1	13	6	29	4	34	3	31	13	21	6	197	59	29.79		
1890.....	12	4	5	3	11	6	7	5	4	2	2	4	1	7	3	13	3	18	2	9	3	5	100	39	39.00		
1891.....	6	4	3	2	5	5	5	1	6	2	5	3	17	6	17	6	29	5	74	16	14	9	190	62	32.63		
1892.....	8	4	5	13	2	14	3	5	5	6	2	10	4	23	2	20	3	19	6	18	7	12	4	144	51	35.42	
1893.....	23	8	6	1	7	2	11	1	11	3	6	3	26	11	28	5	12	3	18	6	24	6	25	6	197	50	25.38
1894.....	50	14	29	7	30	5	13	7	8	6	11	4	12	7	30	3	25	4	21	5	20	6	9	2	258	70	27.13
1895.....	10	16	3	6	1	13	1	7	4	11	3	3	1	16	3	14	4	17	8	50	6	64	19	227	46	20.26	
1896.....	18	4	3	1	6	4	5	1	7	1	11	3	15	6	24	4	13	5	23	1	8	4	162	40	24.69		
1897.....	10	2	5	2	4	3	3	2	6	3	2	2	9	2	22	2	18	3	16	6	6	7	107	24	22.42		
1898.....	13	3	11	4	15	2	8	4	5	3	4	1	18	4	14	4	23	3	12	9	25	1	15	2	163	39	23.92
1899.....	2	1	3	3	1	4	1	8	3	11	2	12	2	25	5	28	9	21	4	22	7	11	7	150	43	28.00	
1900.....	2	4	8	1	10	5	2	7	3	9	3	6	2	9	1	48	2	66	3	20	5	28	3	213	41	19.25	
1901.....	8	6	9	2	11	6	7	1	7	1	18	1	4	4	5	24	5	29	7	35	3	21	9	168	47	27.97	
1902.....	3	2	5	2	2	5	1	10	3	9	2	10	2	15	1	29	4	39	6	19	4	14	6	160	36	22.50	
1903.....	4	4	3	9	9	14	2	11	6	2	15	7	14	2	17	2	29	5	28	2	14	3	164	37	22.50		
Totals.....	224	81	114	40	155	58	130	49	123	58	112	42	101	60	280	79	414	45	430	108	413	115	464	146	3,376	974	28.85

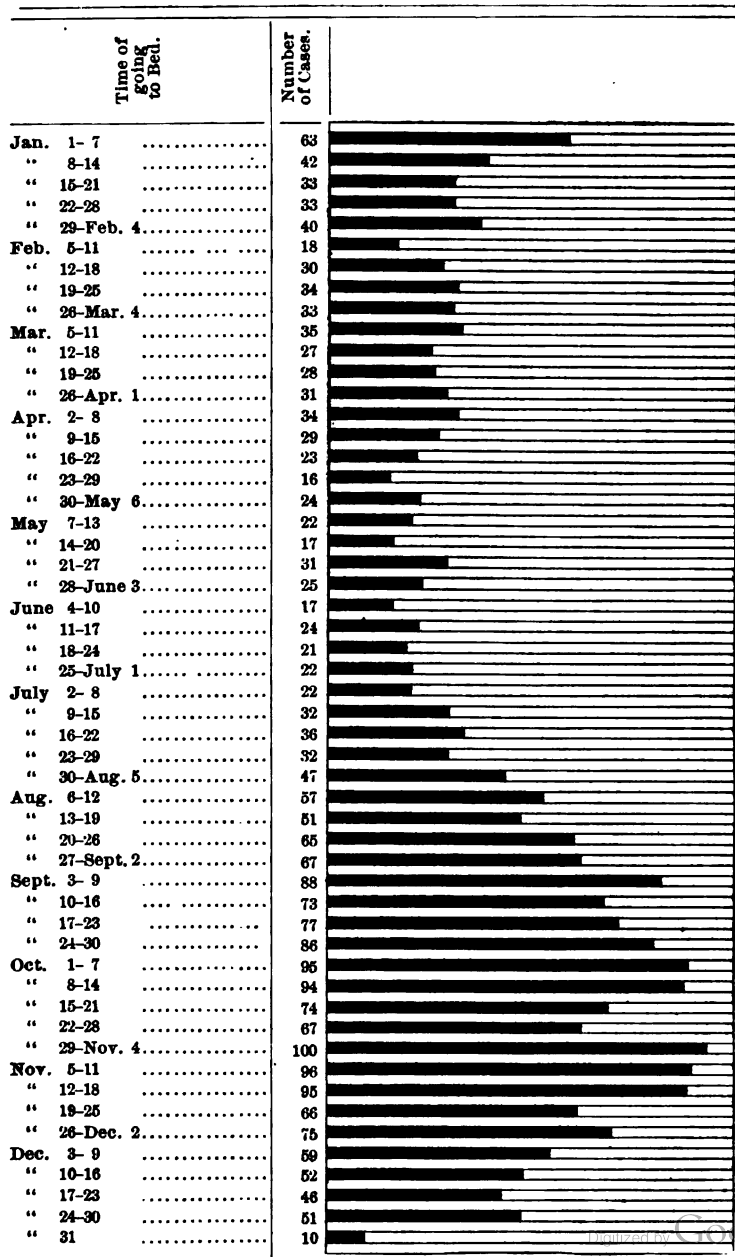
It is desirable to note the seasonal distribution of typhoid a little more in detail than is done in the preceding table. For this purpose a large portion of the cases, all in which the date of attack could be accurately fixed, have been arranged according to the week of the year in which they were taken sick. Most cases of typhoid which come to the notice of this department are sick enough to be in bed, and because the date of going to bed is easily fixed this is reckoned as the beginning of the attack. Of course, the patient has usually been ill for some days before taking to his bed. If to this prodromal period be added the period of incubation, the date of infection will be carried back two or three weeks from the date of attack as here tabulated. There have been in Providence during the period covered by this table one outbreak due to polluted city water, and perhaps two due to infected milk. Either the cases included in these outbreaks or else the whole year in which the outbreak occurred have been omitted from this table and diagram. The year omitted was 1888, and many cases in 1885, 1886, and 1887 could not be tabulated because of defective records. It will be noticed that the number of cases in the first week in January is considerably larger than for the weeks immediately following. That excess was confined almost entirely to 1894, when there was an outbreak suspected to be due to milk, but which was not with certainty attributed to that cause. In 1900 there was a very local outbreak in the second ward in the latter part of September and the early part of October, which is the cause of the excess for the week ending October 7th. The cause of this outbreak was not determined. In 1891 there was a considerable outbreak in the early part of November which there was some reason for thinking was due to specific infection of the city's public water supply, though this was not positively decided. If the excess for these weeks in that year, about 15 to 20 each week, be deducted, the lines for those weeks would not be much higher than those

on each side of this period. The line for the first week in September is somewhat higher than its fellows, which is doubtless to be explained by the return of so many from the country at that time.

It is thus seen that if these few outbreaks just referred to could be omitted the curve showing the seasonal distribution of this disease would be a quite smooth one, with its mode covering the first two weeks in October. Allowing three weeks for the period between the infection and the going to bed of the patient, it appears probable that the time of greatest chance of infection in Providence is about the middle of September, but that infection occurs with almost as great frequency all through October. The liability to infection appears to be nearly as great in the early part of November as in the latter part of August.

DIAGRAM IX.

SEASONAL DISTRIBUTION OF TYPHOID FEVER.



Of the typhoid fever reported in the city during the year 1903, nineteen cases, of which five died, were probably contracted outside of the city.

In seven instances there was more than one case in a house; in three houses there were four cases in each; in one house three cases; and in three houses there were two cases in each. Of these twenty-one secondary cases it appeared from the time of attack that five were not due to infection from the first case. The remaining sixteen were very likely due to such direct contagion. Two of the cases were in a house where there had been typhoid in 1902.

The State Board of Health offers to examine the blood of typhoid suspects by the Widal test, but of the 164 cases reported during the year only fifty-one were subjected to the test, all of which proved to be positive. There were also fifty-one negative tests reported to this department by the State Board of Health and twenty-four from the Rhode Island Hospital from cases not reckoned as typhoid.

It has recently been learned that typhoid fever is sometimes transmitted by oysters, and sometimes by celery, lettuce, etc. Oysters which have been in water badly polluted with sewage, may take up the typhoid germs from the water, and thus be the means of causing the disease. Again it has been found that growing celery may be infected by means of nightsoil used as a fertilizer, and thus become the cause of an outbreak of typhoid fever. The source of the typhoid that occurs in this city is usually unknown; during the last few years an effort has been made to see if any of it could be traced to the sources above referred to. But no evidence pointing to this was obtained. Of eighty-seven of the patients in 1903 who replied definitely as to whether they had eaten of celery, lettuce, or other raw vegetables within two or three weeks of their attack, seventy replied in the negative, and seventeen in the affirmative, but in no case could any clue be found to a possible infection. Of eighty-three patients,

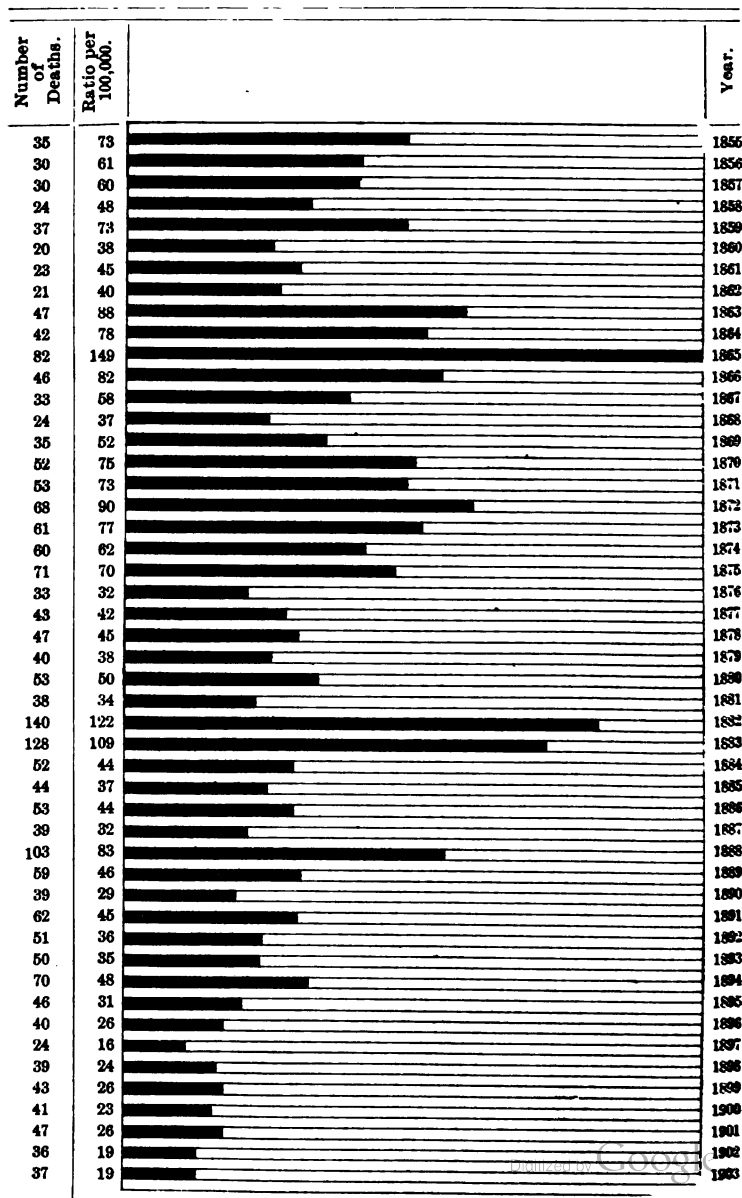
eight confessed to eating raw oysters, while seventy-five said they had not. In thirteen cases the patients said they had eaten raw fruit and in thirty-two instances claimed that they had not.

The accompanying full page diagram shows the number of deaths from typhoid fever for the last forty-nine years, and also the death rate per each 100,000 living. The latter is also represented graphically.

DIAGRAM X.

TYPHOID FEVER.

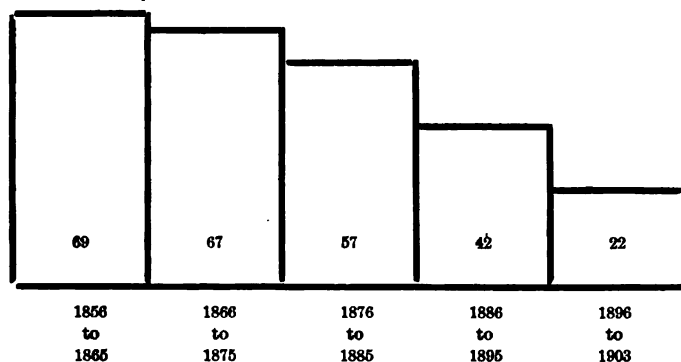
Number of Deaths per 100,000 Living each year for the 49 years, 1855 to 1903.



The following diagram shows the number of deaths from typhoid fever per 100,000 living by periods for forty-eight years:

DIAGRAM XI.

TYPHOID FEVER.



Typhoid fever except in a comparatively small number of cases is not due to direct contagion but to the passage of the bacilli in water or milk, on vegetables and other articles of food, or in perhaps other indirect ways. Of course direct infection must be guarded against and printed advice in regard to this is given by this department in all cases of this disease. But the chief measures for restricting typhoid fever require the work of other municipal departments. The furnishing of a pure water supply and the prompt removal of human excreta are the most important measures now known for restricting typhoid fever. Until 1871 wells furnished the only water supply for Providence, but in that year Pawtuxet water was introduced, and very rapidly came into general use and the wells were abandoned. Although the Pawtuxet river is liable to dangerous pollution and was more so when it was first made use of for a public water supply, yet it is improbable that it has been specifically contaminated except on three or four occasions, and that on

the whole it has furnished an excellent supply. The fall in the death rate from typhoid fever which took place at about this time, may be fairly attributed to the introduction of city water. Though the construction of public sewers began soon after the introduction of water, the old style privy vaults were retained until 1892, when their removal was ordered. This was quite rapidly accomplished during the next few years and the accompanying decrease in typhoid was not improbably due to the removal of these receptacles of human excreta.

DIPHTHERIA.

Besides the cases which were recorded as diphtheria, there were eleven cases of membranous croup and six of other forms of laryngitis, all resulting in death, which came to the knowledge of this department in 1903. It is probable that most of these cases were really diphtheria, and if reckoned would considerably increase the mortality from that disease. All of the cases of membranous croup were placarded with a membranous croup sign and were treated as if contagious. In none of these cases were any cultures taken.

There were reckoned as diphtheria 288 cases in 197 families in none of which diphtheria bacilli were found. Some of these were doubtless not diphtheria, but the attending physician reported them as diphtheria, and in 255 of the cases no culture was taken for diagnosis. In the other thirty-three cases cultures were taken which proved to be negative. In seventeen of these cases only one culture was taken. In thirteen instances two negative cultures were obtained, and in three instances, three. Of the 255 cases where no positive cultural results were obtained, thirty-six resulted fatally, and doubtless in many the serious condition of the patient and the positive character of the clinical symptoms were reasons for the failure of the physician to take a culture.

There were 31 other cases in which the physician did not consider it necessary to take a culture for diagnosis, but in these cases or in their families diphtheria bacilli were afterwards found. There were thus in all 286 cases of diphtheria in which the attending physician did not avail himself of the aid of bacteriology in making his diagnosis. This was forty per cent. of all cases. The year before, it was thirty-three per cent.

There were in the families where diphtheria bacilli were found a number of persons who were sick with the symptoms of the disease, but yet in whom no diphtheria bacilli were found or were not found on the first examination. In two instances there were two successive negatives although there were other cases known to be diphtheria in the family, and under the same circumstances there were twenty-two instances where one negative only was obtained. No subsequent cultures were taken from the above cases, but they were all doubtless true diphtheria. There were also eighteen instances in which a negative was followed by a positive, five instances in which two negatives were followed by a positive, two instances where three negatives were so followed, and two instances where four negatives were followed by a positive. All of the cultures referred to in this paragraph were for diagnosis and taken early in the disease.

In 1903 there were examined by the State, city and hospital laboratories 3,638 cultures. Sixty-two cultures were taken from scarlet fever cases of which fifty-nine were negative.

Except in Table XV the cases in which the diagnosis depended on clinical signs alone, are also reckoned as diphtheria, and are included in the tables.

The following table shows the cases and deaths from diphtheria for each month for the last nineteen years, and the ratio of deaths to cases during the last twenty years:

TABLE XII. DIPHTHERIA.

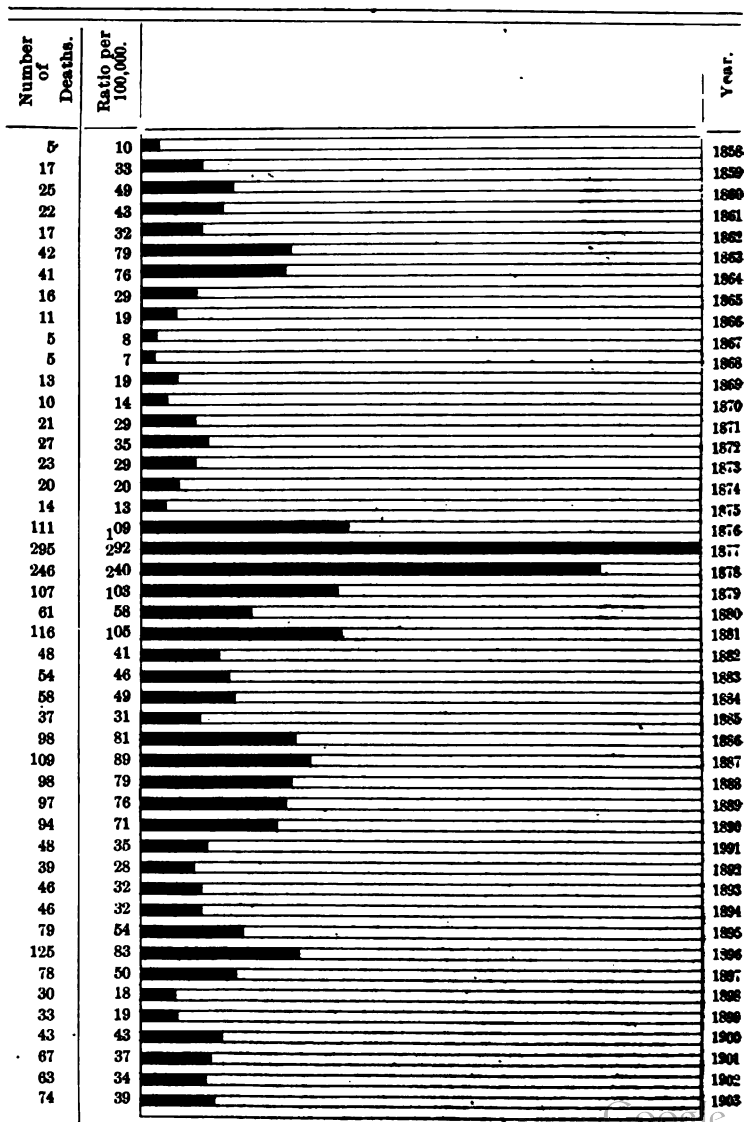
YEAR.	JAN.		FEB.		MAR.		APRIL.		MAY.		JUNE.		JULY.		AUG.		SEPT.		OCT.		NOV.		DEC.		Total Cases.	Total Deaths.	Ratio of Deaths to Cases.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.			
1884.....																									183	58	30.06
1885.....	29	615	310	5	15	25	5	43	35	316	322	338	8	158	36	23.44									158	36	23.44
1886.....	25	433	719	612	827	634	836	29	813	1433	1538	746	14	322	99	30.43									322	99	30.43
1887.....	34	1119	811	225	714	1017	107	414	943	1550	1338	1232	8	304	109	35.85									304	109	35.85
1888.....	33	920	525	1416	520	66	48	87	314	425	1228	928	18	230	97	42.60									230	97	42.60
1889.....	34	1019	727	1018	519	1421	422	819	525	947	825	627	11	303	97	32.01									303	97	32.01
1890.....	42	1742	1536	722	923	721	418	633	812	614	715	328	5	301	94	31.22									301	94	31.22
1891.....	17	440	416	624	315	66	414	35	317	427	622	515	1	218	48	21.91									218	48	21.91
1892.....	1	13	525	412	314	417	36	35	13	218	420	414	5	138	39	28.26									138	39	28.26
1893.....	8	212	222	427	57	315	49	44	223	427	714	321	6	189	46	24.33									189	46	24.33
1894.....	15	511	37	618	424	620	72	4	11	214	317	523	4	166	45	27.71									166	45	27.71
1895.....	45	615	17	225	234	420	716	426	634	938	1057	1369	15	386	79	20.46									386	79	20.46
1896.....	71	1062	687	1777	1164	1248	848	931	457	9108	16137	16120	7	880	125	14.07									880	125	14.07
1897.....	82	868	772	1066	656	943	714	420	529	170	476	1138	6	634	78	12.38									634	78	12.38
1898.....	17	440	622	315	223	211	28	6	129	434	444	118	2	277	30	9.61									277	30	9.61
1899.....	15	222	218	216	313	57	29	7	111	19	423	238	9	198	23	16.66									198	23	16.66
1900.....	29	617	221	335	420	220	112	121	113	244	368	861	10	369	43	11.65									369	43	11.65
1901.....	47	866	570	632	364	558	926	419	628	350	692	548	4	600	67	11.16									600	67	11.16
1902.....	55	951	737	535	732	110	222	220	464	865	561	608	6	530	68	11.70									530	68	11.70
1903.....	40	520	226	241	444	672	743	1251	262	776	2113	899	10	706	74	10.48									706	74	10.48
Totals.....	949	12754	97508	116519	92528	110401	92317	72304	71483	104775	133016	180831	149	7112	1350	19.10									7112	1350	19.10

The first deaths from diphtheria recorded in Providence were in 1858 and the number of deaths each year since that time, and the ratio per 100,000 living are shown in the accompanying full page diagram. It is at once seen that the distribution of this disease has been very irregular. Previous to 1876 it did not prevail very extensively.

DIAGRAM XII.

DIPHTHERIA.

Number of Deaths per 100,000 Living, each year for the 46 years, 1858 to 1903.

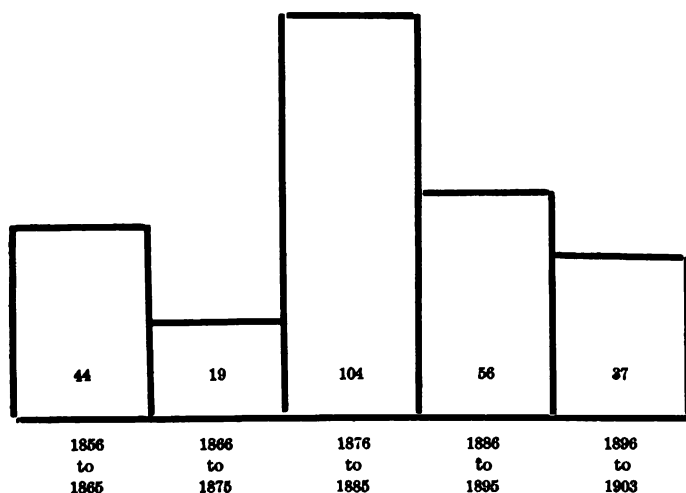


The decrease in this disease in recent years is also well seen in the following diagram which shows the number of deaths from diphtheria per 100,000 living by periods for forty-eight years:

DIAGRAM XIII.

DIPHTHERIA.

Deaths per 100,000 Living:



From 1875 to 1879 there was a severe outbreak culminating in 1877. At this time the disease was generally attributed to "sewer gas" and "filth." There was a good deal in 1881, and it also prevailed, though not so extensively, from 1886 to 1890. Since then, with the exception of 1896, the mortality from this disease has been very much less.

Various rules have been adopted and various measures carried out in combatting this disease. The most effective of these seem to be the teaching of the contagious nature of diphtheria, the placarding of houses where there are cases,

and the exclusion from school of children from infected families. The stringency of isolation required by this department was gradually increased up to 1902, when it was very considerably relaxed. The chief trouble in the management of diphtheria is the determination of how long the warning sign shall be kept up. While in the majority of cases the diphtheria bacilli disappear in a short time, they sometimes linger in the throat and nose for many months. Theoretically, isolation should be maintained until all diphtheria germs have disappeared from the family. This was attempted, but is not practicable because it does not meet with either lay or medical approval. It probably cannot be effectual in a city like Providence because so many cases of slight infection escape the knowledge of the health department. A rule which does not inflict much hardship and meets with general approval will do the most good.

Previous to 1895 it was the rule in cases of diphtheria to keep up the warning sign until one week after the recovery of the patient, as certified to by the attending physician. During that year the use of cultures was begun, and a negative culture was required from the throat of the patient before isolation was ended. In 1896 another step was taken and a negative culture was required from every member of the family. This rule was in force until March, 1902, when it was changed for reasons stated in my last report, the chief of which was the opposition created by the former rule. It may be interesting to compare the duration of isolation under the former rule with that under the present rule. It is shown in the accompanying table:

TABLE XIII.

NUMBER OF DAYS ISOLATION WAS MAINTAINED IN DIPHTHERIA.

Days.	Release dependent on Cultures.	Release dependent on disappearance of Membrane.	Days.	Release dependent on Cultures.	Release dependent on disappearance of Membrane.	Days.	Release dependent on Cultures.	Release dependent on disappearance of Membrane.
1	.....	.....	26	49	9	51	4	.....
2	.....	.....	27	50	6	52	6	.....
3	2	.....	28	35	6	53	6	.....
4	2	.....	29	27	3	54	7	.....
5	4	.....	30	35	6	55	3	.....
6	6	.....	31	36	4	56	4	.....
7	8	.....	32	32	2	57	5	.....
8	18	.....	33	23	1	58	5	.....
9	30	.....	34	38	3	59	.....	.....
10	30	4	35	29	.....	60	3	.....
11	25	9	36	23	3	61	1	.....
12	40	6	37	22	1	62	.....	.....
13	46	15	38	12	2	63	3	.....
14	38	25	39	16	1	64	2	.....
15	51	36	40	18	5	65	4	.....
16	57	32	41	16	.....	67	3	.....
17	52	29	42	15	1	72	1	.....
18	63	30	43	14	.....	77	1	.....
19	53	31	44	10	1	78	1	.....
20	49	27	45	9	3	90	1	.....
21	49	16	46	9	1	98	1	.....
22	71	15	47	9	.....	133	1	.....
23	57	5	48	2	1	.....	.....	.....
24	62	12	49	4	1	.....	.....	.....
25	51	7	50	7	1	.....	.....	.....

It can be readily seen from this table that the former rule required a much longer period of isolation. Under it fifty-seven per cent. of the placards were kept up over three weeks, while now only twenty-seven per cent. are kept up over that time. It may be that the present time limit is too short and should be extended a week or perhaps ten days. But it is notable that for over a year after the adoption of this short time rule there was an exceptionally small amount of diphtheria in the city. During the last year, however, there was more than there had been for several years. During the period when negative cultures were required, the most opposition was aroused when the placard was kept up because diphtheria bacilli were found in members of the family who had never been sick. During 1897 and 1898 such cases were noted and it was found that this happened in about ten per cent. of all infected families. The additional days of isolation thus required were as follows:

Extra Days.....	2	3	4	5	6	7	8	9	10	11	12	13	14	15	17	20	22	25	30
Number of																			
Instances.....	3	6	4	5	6	3	2	1	2	2	2	1	1	2	1	1	1	1	1

These cases caused more trouble than all the others.

The following table shows the number and percentage of persons of different ages exposed to diphtheria who contracted it, and the number who did not. This table includes both the Klebs-Loeffler diphtheria and clinical diphtheria. When I began to collect these facts in 1889, the inspector was not careful to obtain the age in every case, so that until 1890 only a portion of the cases are contained in the table, and it is only since 1893 that the facts in regard to all the adults in the family have been obtained. The number exposed means all the members of the family where the disease occurred. Cases in public institutions are not included in this table:

TABLE XIV.

DIPHTHERIA.

AGES.	CASES.							NUMBER EXPOSED, INCLUDING CASES.							Ratio of cases to number exposed.
	1889-90.	1891-95.	1896-1900.	1901.	1902.	1903.	Total.	1889-90.	1891-95.	1896-1900.	1901.	1902.	1903.	Total.	
Under 1 year..	13	29	46	13	9	17	127	59	130	252	60	52	86	639	19.8
1 " ..	24	43	131	38	29	31	296	43	114	247	67	63	87	621	47.6
2 years..	52	90	181	36	36	58	453	74	156	264	72	71	106	743	60.9
3 " ..	44	103	192	48	41	56	484	77	164	280	90	80	107	788	61.4
4 " ..	47	103	211	49	53	68	531	71	168	309	90	82	103	823	64.5
5 " ..	48	91	210	62	38	62	511	75	179	298	101	84	109	846	60.4
6 " ..	42	72	193	52	40	58	452	68	151	284	95	66	93	757	59.7
7 " ..	31	70	153	41	48	44	387	69	134	268	90	95	100	756	51.1
8 " ..	33	65	188	30	25	37	328	58	141	261	64	66	94	664	47.9
9 " ..	23	41	105	28	23	33	253	52	109	204	74	73	81	563	42.6
10 " ..	26	39	93	18	16	21	213	49	101	215	70	46	64	545	39.0
11 " ..	17	27	90	23	11	25	183	39	76	171	52	53	67	458	42.0
12 " ..	27	43	66	17	12	12	177	53	96	190	61	36	60	496	35.6
13 " ..	8	21	54	7	13	18	121	28	68	150	33	43	62	384	31.5
14 " ..	11	15	37	6	5	9	83	33	49	144	31	29	54	340	24.4
15 " ..	6	12	29	5	5	8	65	17	60	131	28	31	32	299	21.7
16 " ..	11	7	23	5	4	9	59	30	51	113	31	27	44	296	19.9
17 " ..	5	18	34	6	5	5	73	12	48	106	23	31	34	256	28.5
18 " ..	7	10	12	2	5	5	41	14	41	97	25	34	29	240	17.0
19 " ..	2	7	20	1	1	8	39	8	30	85	18	15	35	191	20.4
20 " ..	4	8	20	6	7	4	49	9	22	81	19	24	22	177	27.6
Adults.....	85	159	278	81	78	83	764	752	1286	3951	1116	909	1348	9362	8.1
Totals.....	566	1073	2316	574	504	666	5699	1680	3374	8103	2300	2010	2817	20294	28.0

The number of children in the city one year old must be greater than at any succeeding age period, but in the families included in the preceding table and a similar table relating to scarlet fever, children of four and five years of age are the most numerous. This is of course explained by the fact that we are here dealing with selected families, selected by diphtheria and scarlet fever,—that is, families which have children of the ages most susceptible to these diseases.

The following table differs from the last in including only cases which were shown to be diphtheria by a bacteriological examination.

TABLE XV.

CASES FROM FAMILIES WHERE KLEBS-LOEFFLER BACILLI WERE FOUND.

AGES.	CASES.									NUMBER EXPOSED, INCLUDING CASES.									Ratio of cases to number exposed.
	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	Total.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	Total.	
Under 1 year..	11	10	6	5	1	14	5	11	63	66	63	31	29	29	48	34	45	345	18.2
1 " ..	37	27	17	3	20	28	19	11	162	77	33	44	10	42	50	37	39	332	48.8
2 years.	48	36	26	18	25	31	22	30	236	91	35	38	23	47	56	42	53	385	61.3
3 " ..	49	37	19	17	37	39	21	24	243	94	27	36	26	66	65	49	49	412	58.9
4 " ..	61	50	33	15	21	44	30	33	287	114	38	57	25	45	76	47	55	457	62.8
5 " ..	48	62	30	10	29	56	23	40	298	113	28	46	24	59	86	52	61	469	63.5
6 " ..	47	54	25	12	29	37	26	31	261	91	38	44	24	55	75	39	54	420	62.1
7 " ..	47	41	10	12	22	32	35	25	224	104	29	35	22	41	76	67	50	424	52.8
8 " ..	50	36	18	6	14	28	20	22	194	102	43	36	15	34	57	47	54	388	50.0
9 " ..	39	29	8	4	13	26	17	21	157	73	33	28	12	30	58	51	47	332	47.2
10 " ..	30	22	12	8	13	15	12	8	120	66	35	35	15	39	58	34	36	318	37.7
11 " ..	31	16	11	4	12	16	8	14	112	79	23	25	7	26	41	37	39	277	40.4
12 " ..	13	17	13	3	10	14	8	8	86	49	29	33	18	33	51	24	34	271	31.7
13 " ..	19	13	10	2	3	6	9	11	73	53	30	22	9	17	26	28	34	219	33.3
14 " ..	13	11	3	2	4	6	5	6	50	59	21	18	14	19	25	24	28	208	24.0
15 " ..	10	4	5	3	4	5	4	6	41	40	29	20	12	13	24	21	16	175	23.4
16 " ..	8	5	4	3	1	3	3	7	34	33	16	19	10	15	24	20	25	162	20.9
17 " ..	10	9	2	4	6	6	3	3	43	32	23	12	5	19	18	26	15	150	28.6
18 " ..	2	3	3	2	1	2	3	3	19	26	11	20	7	11	22	28	9	134	14.1
19 " ..	8	6	0	0	2	0	1	4	21	29	13	7	6	15	16	10	21	117	17.9
20 " ..	5	1	0	3	4	5	5	2	25	31	13	3	5	16	15	18	9	110	22.7
Adults.	75	64	35	18	42	67	59	51	411	995	862	572	309	588	898	635	392	5251	7.8
Totals.	661	553	290	154	313	490	338	371	3160	2417	1472	1181	627	1259	1865	1370	1165	11356	27.8

During 1895 and 1896 all the cases of sore throat from which negative cultures were obtained were recorded and tabulated in a manner similar to the preceding. The data obtained are shown in the following table. As in most of these cases only one culture was taken it is probable that some of them were true diphtheria. Nevertheless, even with these included, the contagiousness of this group is very much less than that of diphtheria. That non-diphtheritic sore throat is contagious is thus quite clearly shown.

TABLE XVI.

CASES IN WHICH BACILLI WERE NOT FOUND.

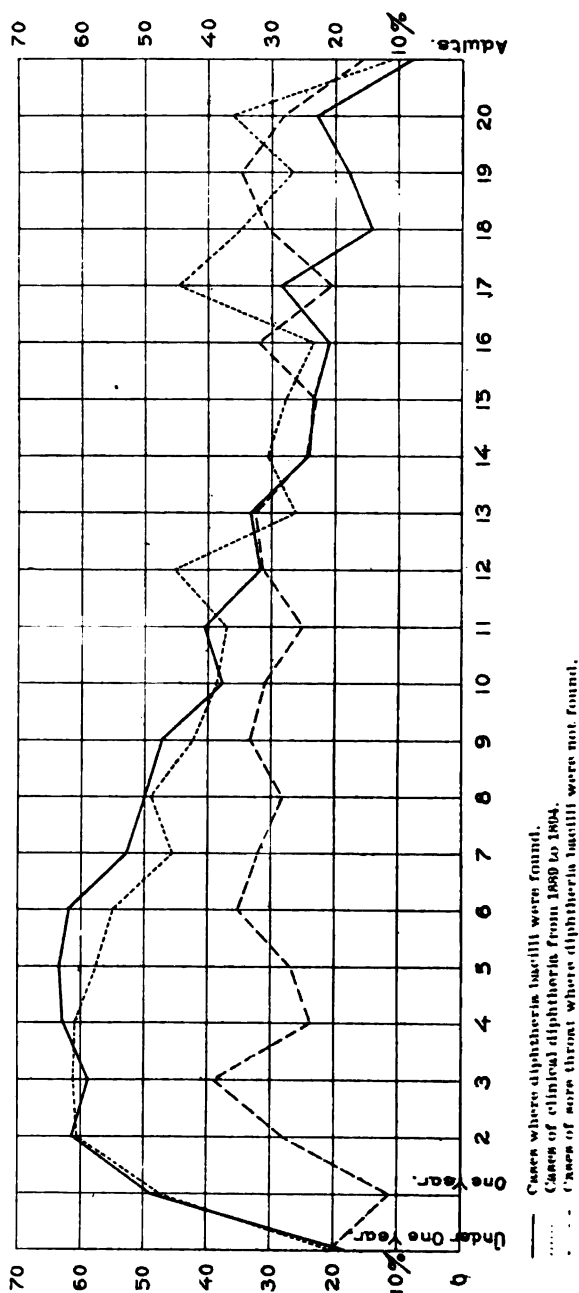
Ages.	Cases.	Number exposed.	Ratio of cases to Number exposed.
Under 1 year.....	8.....	39.....	20.5
1 ".....	6.....	54.....	11.1
2 years.....	19.....	68.....	27.9
3 ".....	30.....	77.....	38.9
4 ".....	18.....	76.....	23.6
5 ".....	23.....	85.....	27.0
6 ".....	30.....	85.....	35.2
7 ".....	24.....	75.....	32.0
8 ".....	29.....	103.....	28.1
9 ".....	22.....	66.....	33.3
10 ".....	18.....	58.....	31.0
11 ".....	10.....	40.....	25.0
12 ".....	18.....	57.....	31.5
13 ".....	12.....	37.....	32.4
14 ".....	8.....	33.....	24.2
15 ".....	6.....	26.....	23.0
16 ".....	9.....	28.....	32.1
17 ".....	7.....	34.....	20.5
18 ".....	11.....	36.....	30.5
19 ".....	8.....	23.....	34.7
20 ".....	7.....	25.....	28.0
Adults.....	138.....	888.....	15.5
Totals.....	461.....	2013.....	22.9

The contagiousness of diphtheria in the family, as shown by the figures in the foregoing tables, is also illustrated in the diagram on page 72. The contagiousness of non-diphtheritic sore throat is also shown, and it is seen to be much less contagious than true diphtheria. It is also seen to be relatively more contagious to adults than to children. The diphtheria line is based entirely on cases in which the diagnosis was established by bacteriological examination. Previous to 1895 no cultures were taken, and cases reported during that period might be expected to include many that were not really diphtheria. A line has been added to the chart showing the contagiousness of the cases reported before 1895. As was to be expected, this group shows less contagiousness in the early years and somewhat greater contagiousness in the later years. On the whole the contagiousness is less than in the cases known to be true diphtheria, but the difference is not so great as might be expected.

These tables include all families, those from which the patient went to the hospital, those where well children were promptly removed, and those where the strictest isolation of the patient was maintained as well as those, which were the majority, in which the disease was allowed to run its natural course through the family. Even thus diphtheria is seen to be a decidedly contagious disease, as over sixty per cent. of the children of certain ages are attacked. If no restrictive measures were adopted in the infected families the proportion of children attacked would be very considerably greater.

It is seen from these tables that in true diphtheria the most susceptible period is the fifth year, though from the second to the sixth the degree of danger is not much less. From the sixth year onward there is a gradual decrease in susceptibility, until in adult life the danger of contracting it in the family is a little less than eight per cent. The susceptibility of infants under one year of age is about eighteen

DIAGRAM XIV.
PERCENTAGE OF PERSONS ATTACKED IN FAMILIES INFECTED WITH DIPHTHERIA AND SIMPLE "SORE THROAT."



per cent. Even the youngest children may be affected, as a case is recorded here of an infant aged three weeks. In this connection the term insusceptibility is used in its broadest sense. It does not necessarily mean that there is any real immunity, such as might be conferred by a previous attack. Such immunity in diphtheria is of short duration and probably is of little importance in protecting members of the family from attack. It is not at all unlikely that the excessive number of children attacked between the ages of two and six is due largely to the greater facility with which the secretions of nose and mouth pass from one to another because of the intimate contact connected with the play of children. The cases which occurred in public institutions are not included in Tables XIV and XV, though they are in Table XII.

There was a small outbreak in the Working Boys' Home on Park street, which began Dec. 16, 1902, and the particulars of which were noted in my last report. Four of the cases which occurred in 1903 are included in Table XII.

On May 6th a case was found at the Rhode Island School for the Deaf. The throats of several others of the children were examined but no diphtheria bacilli were found and no other cases developed.

On January 4th there was a case at the Lying-in Hospital. It was at once removed to the Rhode Island Hospital. There were no other cases.

During the year there were three cases at Brown University, in February, March and September, but there was apparently no connection between them.

At the Home for the Society for the Prevention of Cruelty to Children a case of diphtheria was reported on December 12th. It was at once removed to the hospital, and within the next five days five other cases developed. As there was no room for them at the hospital they remained at the Home, but there were no other cases.

At the Rhode Island Hospital twenty-six cases developed at intervals through the year. Of these sixteen were attendants or patients in the general wards, and it is probable that some of these, as indeed some of the other cases in the institution, were contracted outside. One case was an interne attending diphtheria patients and four were nurses or maids in the diphtheria ward. Three cases were in patients admitted for measles and two in patients admitted for scarlet fever.

A brief review of the occurrence of this disease in institutions in past years is of some interest as illustrating the value of restrictive measures, and also their limitations.

In the St. Aloysius Orphan Asylum there are something over 200 children, and diphtheria has appeared there at least six times during the past twenty years. Of course every case has been promptly isolated either at the asylum or by removal to the hospital. It has seldom happened that more than one or two cases have occurred, and usually only one. In 1898 there were four cases, and an examination of the throats of all the children showed that forty-eight of them had diphtheria bacilli. These were all isolated until a negative culture was obtained and no other cases occurred for eight months, when there was one more, but an examination of all the children failed to reveal any bacilli. In 1900 there was another case, and at this time cultures revealed a large number of infected throats, but none of these children were isolated and no more cases developed.

At the Children's Home, on Tobey Street, where there are about seventy-five children, there have been two outbreaks, in one of which sixteen children and in the other six children were sick. The former outbreak extended over a considerable period.

On six occasions there has been diphtheria at the Rhode Island School for the Deaf, where there are about sixty

children and fifteen to twenty adults. In 1896 there were six cases, in 1897, one case, and, in 1898, eight cases scattered through the year. In 1899 there were several cases in November and December, and throat and nose cultures revealed infection among many well children. The attempt was made during several months to isolate all infected children, but the attempt was not successful, and a few cases occurred from time to time during the early part of 1900. When the children were sent home in June there were doubtless many infected children. During this period of nearly three years, while there had been a considerable number of cases, there were none of a very severe type. Since that time one or two mild cases have developed in the Institution.

At the St. Vincent Asylum, where there are about seventy-five young children, and about as many adults, a fatal case of diphtheria was reported in December, 1899. All of the children and adults were examined and many found to be infected with typical diphtheria bacilli. The attempt was made, as it was in the Deaf School, to get rid of this infection by the isolation of all persons in whom bacilli were found and by disinfection. This attempt lasted six months and was not successful. Antitoxin was given to every child, and during this period there were only three cases of diphtheria, none of which were fatal. In the latter part of 1900 there were quite a number of cases, some of which were fatal. During 1901 there were fifteen cases, some of them fatal, distributed through the year from January to December. Since then there have been no cases in the Institution.

In 1899 there were two or three cases at the Lying-In Hospital. The same methods were made use of as in the institutions just mentioned, with the result of apparently freeing the hospital from infection. But in August cultures taken for experiment showed that many persons were

still infected. A single case developed a few days later. There were one or two cases in 1900, 1902 and 1903.

At the Home of the Society for the Prevention of Cruelty to Children, where there are about twenty-five children, there was an outbreak of seven cases in 1898, and in 1903 of six cases. Both outbreaks were checked by the removal of infected cases to the hospital, but the former showed the futility of relying implicitly on two successive negative cultures.

There were three cases in the Rhode Island Nursery in 1895, one in St. Joseph's Hospital in 1898, one in the Shelter for Colored Children in 1898, and six in the Working Boys' Home in 1902. This outbreak began about the middle of December and lasted into 1903, there being four more cases early in that year. There were two cases at the Friends School in 1900 and one in 1902, and three cases at Brown University, 1903.

It is thus seen that when diphtheria has appeared in an institution in Providence it has been possible in the majority of cases to check it by the prompt isolation of the first case or cases recognized. It also appears that the use of cultures to aid in picking out such well persons as may be infected is also sometimes of use. But it sometimes happens, as at the Deaf School, the St. Aloysius Asylum, and particularly at St. Vincent Asylum, that infection becomes so general that it is impossible to get rid of it by isolation and disinfection, but that it may die out of itself in time, though it may take months and perhaps years.

The following shows certain facts in the etiology and prevention of diphtheria:

TABLE XVII.

	1889-90.	1891-95.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	Totals
Number of families in which there was more than one child.....	233	574	433	326	161	107	194	310	299	364	3,001
Number of these in which there was more than one case.....	89	179	172	125	57	35	60	104	75	134	1,030
Number of children in all the above families	894	1,614	1,690	1,282	642	458	756	1,138	1,113	1,301	10,868
Number of these children who were attacked.....	422	750	793	578	287	191	319	470	440	637	4,887
Number of additional families with children in the same house.....	97	329	323	254	119	79	131	215	224	248	2,019
Number of children in these families..	282	854	898	665	311	199	359	591	640	675	5,454
Number of these additional families attacked.....	18	24	30	9	11	2	5	17	10	23	149
Number of children in these families who were attacked	25	28	55	26	12	7	6	23	14	31	227
Number of those exposed who had a previous attack...	89	120	0	0	0	0	0	0	0	0	209
Number of the above attacked.....	33	34	0	0	0	0	0	0	0	0	67

For the frequency of the recurrence of the disease after the placard is removed see page 13.

From the above table can be readily seen how small is the chance of a second family being attacked in a house where there is diphtheria. Of 2,019 such families only 149, or a little over seven per cent., became infected. Observation has shown that in nearly all of these cases there was known to be direct and often close intercourse between the first and second families infected. In a large proportion of cases the infection probably takes place before the diagnosis is

made and before the warning sign is placed on the house. This is shown in Table XVIII by the large number of cases which develop early in the disease. Even when it is not known that there is direct communication between the families, such is probable, for the extension during the course of the disease rarely, if ever, takes place except among those people who are evidently careless or have little control over their children. This is so evident that I have for years allowed the children from the non-infected families in most instances to attend school, and this without a single mishap. It must be remembered that in houses with more than one family all usually use the same doors, halls, stairways, cellars, and often the same water closets, and it can be inferred that the danger of infection by means of such things, which is usually assumed to be very considerable, as a matter of fact practically amounts to nothing. There is also shown to be no danger of the disease being air-borne from one family to another. The facts show that if there is no direct intercourse with the infected family there is no danger to another family living in the same house.

TABLE XVIII.

DIPHTHERIA.

Infection of other families in the house.

Day of primary sickness.	Number of families attacked.	Number of families attacked after disinfection.	Day of primary sickness.	Number of families attacked.	Number of families attacked after disinfection.
1	7	.....	23	2	.....
2	15	.....	24	2	.....
3	11	.....	25	2	.....
4	12	.....	26	2	.....
5	5	.....	27	2	.....
6	4	.....	28	.....	.....
7	4	.....	29	2	.....
8	7	.....	30	2	.....
9	6	.....	31	3	.....
10	3	.....	2d month.	8	4
11	4	.....	3 "	2	3
12	3	.....	4 "	2	.....
13	5	.....	5 "	1	1
14	2	1	6 "	.....	.....
15	4	.....	7 "	1	.....
16	4	.....	8 "	.....	1
17	1	.....	9 "	.....	.....
18	1	.....	10 "	.....	.....
19	2	.....	11 "	.....	1
20	3	.....		
21	2	1		137	12
22	1	.....		

For several years records were kept to show the immunity, if any, secured by a previous attack of diphtheria. But it was found, as shown in Table XVII, that of 209 per-

sons who had had the disease before, sixty-seven, or thirty-two per cent., were attacked a second time, which is about the same ratio as for those who have never had it. This is in accord with all recent observations.

The following table shows the day of the sickness in diphtheria on which secondary cases occurred. The second and third columns show the number and percentage of *second* cases occurring on each day of the disease. It is possible, from these data, to judge somewhat of the period of incubation of the disease, though of course only roughly, as too many factors are involved. It may be inferred, however, that the disease is contagious from the outset and that the period of incubation is short, often a few days only and variable. About seventy-six per cent. of the *second* cases develop during the first ten days, so that if a child has escaped for this period the probability of its contracting the disease may be fairly said to have diminished by this amount. The fourth and fifth columns include not only *second* cases but all that subsequently develop, and from these figures it is possible to estimate the chance of the well-members of the family becoming infected at any given time during the course of the disease.

TABLE XIX.

DIPHTHERIA.

Date of attack of secondary cases in family.

Day of primary sickness.	Number of second cases.	Percentage attacked on each day.	Total number of secondary cases.	Percentage attacked on each day.	Day of primary sickness.	Number of second cases.	Percentage attacked on each day.	Total number of secondary cases.	Percentage attacked on each day.
1st Day	65	8.3	68	6.1	20th Day	6	.7	10	.8
2 "	52	6.6	57	5.1	21 "	8	1.0	18	1.6
3 "	68	8.6	73	6.5	22 "	6	.7	9	.8
4 "	70	8.9	76	6.8	23 "	5	.6	10	.8
5 "	71	9.0	82	7.3	24 "	4	.5	8	.7
6 "	69	8.8	88	7.9	25 "	2	.2	7	.6
7 "	63	8.0	75	6.7	26 "	4	.5	7	.6
8 "	59	7.5	78	7.0	27 "	6	.7	13	1.1
9 "	51	6.5	79	7.1	28 "	0	....	2	.1
10 "	28	3.5	45	4.0	29 "	1	.1	2	.1
11 "	24	3.0	44	3.9	30 "	1	.1	5	.4
12 "	15	1.9	32	2.8	31 "	1	.1	3	.2
13 "	15	1.9	27	2.4	32 "	4	.5	6	.5
14 "	17	2.1	31	2.7	33 "	3	.3	6	.5
15 "	9	1.1	30	2.6	34 "	2	.2	6	.5
16 "	12	1.5	26	2.3	35 "	1	.1	2	.1
17 "	16	2.0	29	2.6	6th Week	7	.8	17	1.5
18 "	7	.8	18	1.6	7 "	3	.3	6	.5
19 "	7	.8	17	1.5					

It is unquestionably an advantage when diphtheria occurs in a family to remove the well children as speedily as possible in order that they may escape infection. The number of persons who have been thus removed and the number afterwards attacked are shown in the following table:

TABLE XX.

DIPHTHERIA.

Benefit to well persons of removal from infected families.

Day of sickness of primary case.	Percentage of re- movals for each day.	Age of those re- moved.	Number re- moved.	Day of absence on which sick- ness developed.	Number taken sick.
1	14	Under 1	25	1	3
2	20	1	37	2	5
3	19	2	41	3	8
4	15	3	48	4	4
5	11	4	48	5	2
6	5	5	67	6	2
7	2	6	50	7	2
8	3	7	60	8	2
9	1	8	60	9	2
10	1	9	55	10	.....
11	.8	10	50	11	1
12	.9	11	44	12	1
13	.1	12	45	13	.....
14	.3	13	34	14	.....
15	.6	14	34	15	.....
16	.2	15	33	16	.....
17	.....	16	30	17	.....
18	.2	17	20	18	.....
19	.....	18	31	19	.....
20	.....	19	14	20	1
21	.6	20	11	21	.....
22	.....	Adults.	132	22	1
				23	1
				32	1
			939		36

In a number of instances persons go away from home and return in a short time and before the warning sign is removed from the house, and of course are occasionally taken sick on their return. None of these cases are included in the table, but only those which remained away for the prescribed time. This table covers a period of fifteen years, from 1889 to 1903.

Of the 939 well persons who were removed from their homes where there was diphtheria, thirty-six were taken sick while away, as shown in Table XVII, and eight were taken sick after their return home. Several other cases were noticed in previous reports, but these were of no interest as the well person returned while there was still recognizable sickness in the house. The case in 1890 was taken sick three months after return. The case in 1892 was taken sick nine days after return. The 1895 case returned ten days after the first case, and before disinfection, and was sick twelve days later. There were of course no cultures from the family in any of these cases. In 1897 there were instances in which well children were attacked on their return, in two, eight and twelve days. In one instance no culture was taken from the child before he went away, and in the other two cases no culture was taken from one of the adults in the family, and in one of these cases the adult was probably infected, as she was known to have carried the infection to another family. In 1898 a case developed nine days after return, but only a single negative had been obtained from the throat of the first patient. In 1900 a case developed six days after disinfection. A negative culture had been obtained from each member of the family at home but no culture was taken from the patient before he went away.

If use is made of the methods employed on page 26 it will be seen that if the 939 persons who went away had remained at home it is probable that 116 would have been attacked, or one in eight. But actually thirty-six were at-

tacked while away and eight after their return, making one in twenty-six, or, including the eight who were attacked after their return home, one in twenty-one. Thus it is seen that removal of well persons, as these are generally children, as usually practiced in Providence, increases their chance of escaping the disease about threefold. If all the removals were more promptly made and more precautions were taken in the return, a still larger number might be protected. Considerably more protection is secured by removing the well persons from home than by removing the sick persons to the hospital. This is what might be expected, for a person going from home only runs the risk of infection before leaving, while if it is the patient who is removed, each one left at home runs the risk of infection from all the other members of the family who we know may be infected though perfectly well, and also from the house and its contents, which, if popular notions are correct, also may be infected.

SCARLET FEVER.

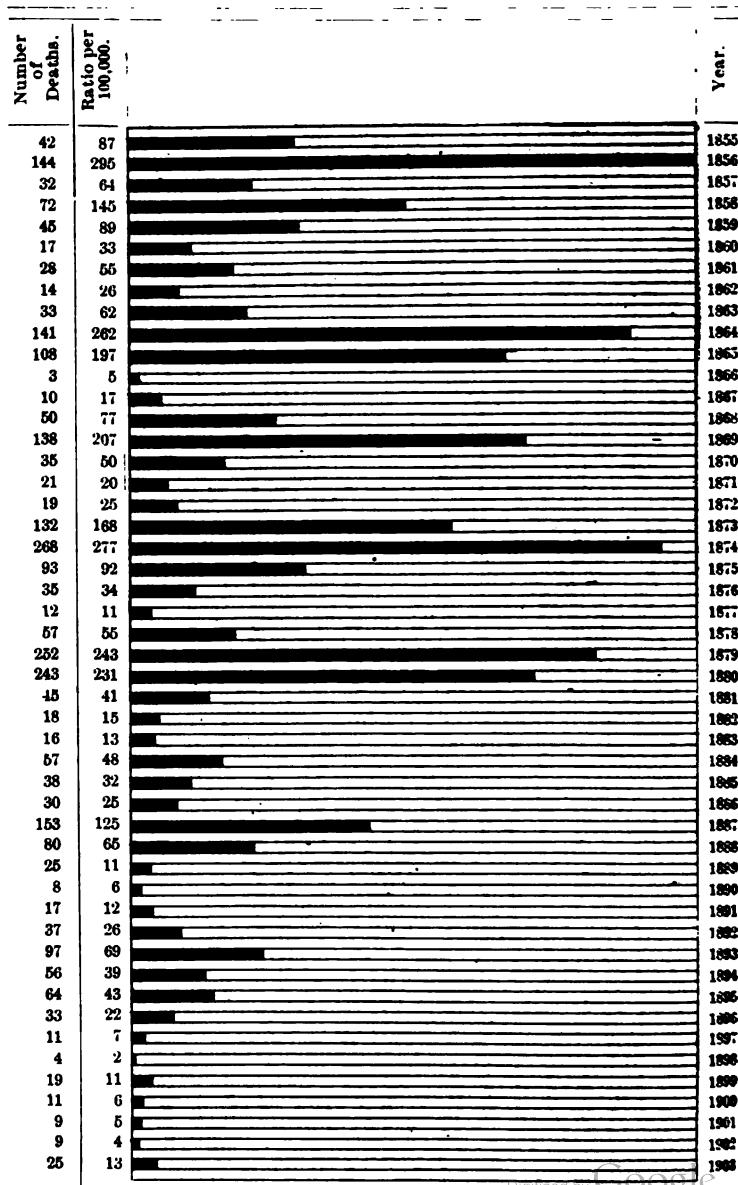
The table on the next page shows the cases and deaths from scarlet fever for each month during the last nineteen years, and the number and ratio of deaths and cases for the last twenty years:

TABLE XXI. SCARLET FEVER.

YEAR.	JAN.		FEB.		MAR.		APRIL.		MAY.		JUNE.		JULY.		AUG.		SEPT.		OCT.		NOV.		DEC.		Total Cases.	Total Deaths.	Ratio of Deaths to Cases.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.					
1884.....																								538	57	10.59	
1885.....	69	543	842	823	424	19	110	213	130	245	325	140	3											383	38	9.92	
1886.....	56	439	316	19	115	14	214	212	411	115	316	420	5											237	30	12.65	
1887.....	54	838	339	448	122	221	526	842	1075	17256	47122	23105	26											848	153	18.04	
1888.....	91	1849	1944	945	1331	818	415	19	113	112	221	313	..											361	79	21.88	
1889.....	16	413	34	319	811	314	23	46	113	9	114	10	..											162	25	15.43	
1890.....	1	6	120	116	113	29	3	1	5	4	24	234	1											136	8	5.88	
1891.....	53	153	47	548	240	113	117	19	11	134	240	37	4											402	17	4.19	
1892.....	45	448	565	650	136	442	315	110	217	24	43	477	7											472	37	7.84	
1893.....	70	864	663	695	9122	1289	1469	1266	646	1458	251	172	7											865	97	11.21	
1894.....	99	848	637	454	859	828	33	244	248	7103	589	3112	3											754	56	7.42	
1895.....	144	8120	7129	12129	1652	448	454	260	456	54	278	265	1											989	64	6.47	
1896.....	97	375	853	640	139	127	121	23	133	246	176	258	7											588	33	5.68	
1897.....	46	23	21	229	330	25	112	15	22	130	37	38	1											328	11	3.35	
1898.....	71	141	121	22	26	12	17	6	19	29	135	123	..											322	4	1.24	
1899.....	46	526	229	145	129	416	116	24	162	56	278	161	1											488	19	3.89	
1900.....	79	240	256	244	137	225	14	15	13	25	139	49	..											426	11	2.58	
1901.....	19	24	37	35	142	221	111	119	216	38	39	227	..											328	9	2.74	
1902.....	26	13	52	135	230	120	213	111	218	12	10	14	..											254	9	3.54	
1903.....	31	25	238	143	148	656	550	133	340	244	271	2102	..											531	25	4.30	
Totals.....	1113	79788	73843	71839	74706	62507	47413	39408	39548	48894	77908	50867	66											9462	789	8.26	

DIAGRAM XV.

*The number of Deaths from Scarlet Fever per 100,000 Living,
for the 49 years, 1855 to 1903.*



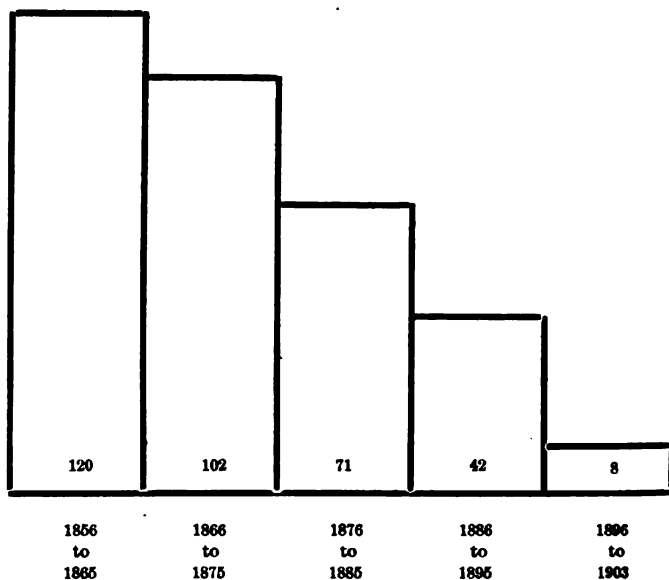
The accompanying full page diagram shows the number of deaths each year since 1855 and the ratio of deaths to each 100,000 living. It is seen that the mortality from scarlet fever has undergone a remarkable and steady decrease. This is shown still more plainly in the smaller diagram which illustrates the varying mortality during five nearly equal periods from 1856 to 1903. Thus in the ten years from 1856 to 1865 the mortality from this disease was 120 per 100,000, during the last eight years it has been only eight per 100,000, a reduction of over ninety-three per cent. While perhaps some of this may be due to a milder form of the disease, and some perhaps to unknown causes, it certainly seems probable that much of it is due to the increased care now taken by both sick and well to prevent the spread of the disease.¹ It will also be seen from Diagram XV that during the forty years from 1855 to 1894 there was a well marked outbreak every five or six years, the disease often sinking to insignificant proportions during the interval. A similar periodicity is exhibited by measles and whooping cough and is illustrated in Diagrams I and III. In scarlet fever this periodicity seems to have diminished since 1888, and for over ten years there has been no notable outbreak of the disease. The periodicity of diphtheria as shown in Diagram XII is not nearly so well defined as that of scarlet fever. What causes the periodicity of these diseases is not at present very well understood.

The following diagram shows the number of deaths from scarlet fever per 100,000 living by periods for forty-eight years:

(¹) An outbreak began in October, 1903, which has continued to the present time April, 1904, but it does not promise to attain the severity of that of 1887.

DIAGRAM XVI.

SCARLET FEVER.

Deaths per 100,000 Living.

The following table shows the number and percentage of persons of different ages exposed to diphtheria who contracted it, and the number who did not. When I began to collect these facts in 1887, the inspector was not careful to obtain the age in every case, so that until 1890 only a portion of the cases are contained in the table, and it was only since 1893 that the facts in regard to all the adults in the family were obtained. The number exposed means all the members of the family where the disease occurred. Cases in public institutions are not included in this table:

TABLE XXII.

SCARLET FEVER.

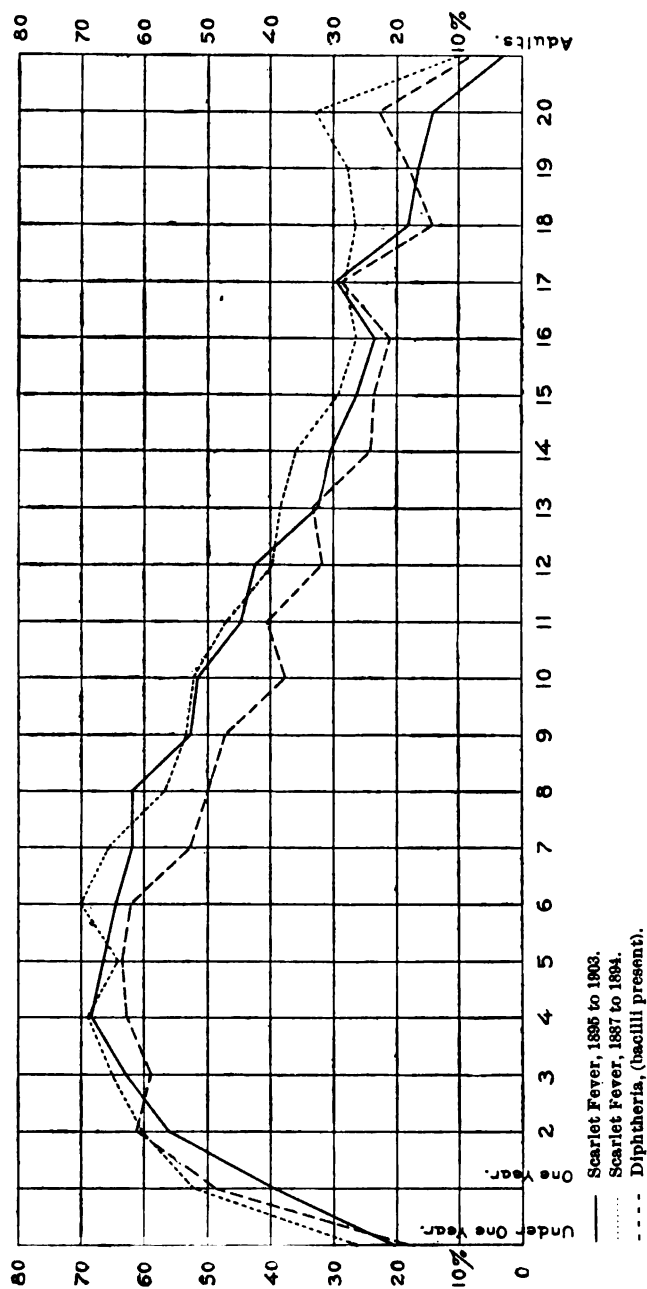
AGES.	CASES.							NUMBER EXPOSED, INCLUDING CASES.							Ratio of cases to number exposed.
	1887-90.	1891-95.	1896-00.	1901.	1902.	1903.	Total.	1887-90.	1891-95.	1896-00.	1901.	1902.	1903.	Total.	
Under 1 year..	29	117	39	4	6	4	199	117	425	218	35	33	43	871	22.8
1 " ..	39	160	99	16	8	20	342	93	362	189	42	24	55	765	44.7
2 years.	108	257	167	30	15	28	605	193	478	227	42	37	65	1042	58.0
3 " ..	108	320	190	39	26	61	744	190	554	228	61	43	87	1163	63.9
4 " ..	116	309	221	27	18	38	729	186	518	229	41	30	59	1063	68.5
5 " ..	91	383	237	29	34	46	820	197	621	258	46	56	75	1253	65.4
6 " ..	113	348	214	30	27	43	775	188	559	239	54	46	69	1155	67.1
7 " ..	103	326	196	22	18	52	717	169	581	215	41	39	83	1128	63.5
8 " ..	83	223	151	26	16	57	556	168	436	181	42	25	80	936	59.4
9 " ..	74	194	117	14	15	42	456	166	380	174	25	38	77	860	53.0
10 " ..	51	157	94	13	15	41	371	96	339	147	40	31	62	715	51.8
11 " ..	43	113	70	11	6	19	262	104	252	132	20	27	37	572	45.8
12 " ..	34	104	62	10	5	12	227	104	266	110	23	24	26	553	41.0
13 " ..	33	69	38	6	9	7	162	83	199	118	15	22	23	460	35.2
14 " ..	21	67	36	7	5	10	146	76	191	115	18	14	31	445	32.8
15 " ..	18	41	20	4	4	4	91	67	142	77	11	16	16	329	27.6
16 " ..	12	33	20	5	2	8	80	47	139	83	13	18	25	325	24.6
17 " ..	8	28	19	4	3	15	77	33	104	79	9	10	30	265	29.0
18 " ..	4	19	12	1	3	6	45	10	98	72	11	9	18	218	20.6
19 " ..	6	17	12	.....	1	3	39	16	86	74	2	6	9	193	20.2
20 " ..	8	17	6	2	1	4	38	18	76	60	10	8	12	184	20.6
Adults.....	42	169	84	19	13	31	358	106	2952	3212	473	480	696	7919	4.5
Totals.....	1144	3471	2104	319	250	551	7839	2427	9758	6437	1074	1040	1678	22414	34.9

As shown on page 68, the excessive number of children from two to seven years of age is due to the fact that this disease is more likely to attack families having children of these the most susceptible ages.

The contagiousness of scarlet fever in the family as shown in Table XXII is also illustrated in Diagram XVII. The conditions previous to 1895 are shown by the fine dotted line and the conditions since then by the continuous line. It will be seen that the contagiousness is apparently somewhat less in the latter period which is doubtless due to better isolation. The contagiousness of diphtheria is also shown on the same diagram and it is seen to be somewhat less than that of scarlet fever. The relative contagiousness of the two diseases at different age periods is about the same. In both diseases the period of greatest liability to infection is from the fourth to the eighth year, after which age it slowly diminishes.

DIAGRAM XVII.

PERCENTAGE OF PERSONS ATTACKED IN FAMILIES INFECTED WITH SCARLET FEVER AND DIPHThERIA.



The cases of scarlet fever which occurred in public institutions are not included in Table XXII though they are in Table XXI.

There were two cases in St. Vincent Asylum, one on July 20th and one on August 1st. Both were promptly removed to the Rhode Island Hospital.

There was one case, a maid, at the Home for Aged Women. It was promptly removed to the hospital.

On October 29th a case of scarlet fever developed at the Children's Home on Tobey Street. It was removed to the hospital November 1st.

On November 2d two sisters were taken sick with sore throat, and one of them had a slight rash. They were isolated together and on November 16th a scarlet fever eruption appeared on the second of the two children. They were both removed to the Rhode Island Hospital November 17th. On December 12th the second case, which was entirely through desquamation, was discharged from the hospital and returned to the Home. Other cases developed at the Home on December 14, 15, 16, 17, 18, 20, 22, 24, 27, 28 and on January 1, 5, 8, 9, 31 and February 1, 1904. In all there were twenty-four cases among the seventy-six children. None of the adult staff, sixteen in number, were attacked. All except the first two cases were treated at the Home and isolated as well as possible with the limited facilities.

At the Rhode Island Hospital five cases developed, of which one was a diphtheria patient, one a nurse in the scarlet fever ward, and three attendants or patients in the general wards.

Our experience during the last twenty years with scarlet fever in institutions has not been very different from that with diphtheria.

In 1887 of the thirty-three children in the Shelter for Colored Children, thirty-two had scarlet fever.

On four occasions the disease appeared in the Children's Home, where there are about seventy-five children. In 1892 there were fifteen cases, in 1894 there were seventeen cases from September 4th to November 24th, in 1900 there were two cases in December, and in 1903 there was an outbreak which lasted from October to February, 1904, and in which there were twenty-two cases.

At St. Aloysius Asylum, with over 200 children, there have been four outbreaks, with one, two, four and five cases respectively. As the cases in the last two outbreaks were separated by a month or more from one another, it is not improbable that some of them at least were due to fresh infection.

At the St. Vincent Asylum, with seventy-five children, there have been five outbreaks, with one, one, two, two and five cases respectively. In the latter outbreak there had been an unrecognized case in the institution for three weeks and it is remarkable that no more cases developed.

At the State Home and School, with 135 children, there were in 1899 and 1900 fifty-one cases, extending from November 17th to April 23d.

There have been single cases in the Homeopathic Hospital, the Lying-In Hospital, the Friends School, Bufler Hospital, the Home for Aged Women, the Deaf School, the Home for the Society for the Prevention of Cruelty to Children and in Brown University.

The following table gives the results of my observations during the past sixteen years concerning certain points in the etiology and prevention of scarlet fever. This table for the years previous to 1892 does not include all the families and cases:

TABLE XXIII.

	1887-90.	1891-95.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	Totals
Number of families in which there was more than one susceptible child.....	615	1,600	305	174	178	267	215	171	137	405	4,067
Number of these in which there was a second case....	334	711	128	58	68	90	72	51	41	105	1,656
Number of susceptible children in all the above families.....	2,270	5,571	1,032	644	655	992	758	573	512	1,098	14,105
Number of these children who were attacked...	1,194	2,935	526	318	322	477	401	259	208	495	7,135
Number of additional families with susceptible children in the same house.....	273	817	197	132	113	206	174	122	104	280	2,418
Number of susceptible children in these families...	799	2,259	545	340	295	628	412	310	230	746	6,564
Number of these additional families attacked....	45	94	16	6	7	5	7	4	3	11	196
Number of children in these families who were attacked...	81	157	41	9	12	9	14	5	3	15	346
Number of children who were exposed and who had previously had scarlet fever ...	278	112	62	63	73	55	68	42	91	844	
Number of these who were attacked a second time.....	40	20	3	12	10	4	4	6	10	109	
Number of adults who were exposed and who had previously had scarlet fever ...	541	120	79	87	155	184	112	74	153	1,505	
Number of these who were attacked a second time.....	10	1	...	1	...	3	1	1	3	30	
Number of families where inoculation was practiced	260	422	...	...	...	...	...	...	...	...	682

	1887-90.	1891-95.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	Totals
Number of instance in the above families where the disease spread beyond the first case.....	135	237	...	...	...	...	...	...	...	...	372
Number of susceptible children in these families...	1,037	1,512	...	...	...	...	...	...	...	...	2,549
Number of these children who were attacked..	588	883	...	...	...	...	...	...	...	...	1,471

For the frequency of the recurrence of the disease after the removal of the placard, see p. 15.

From Table XXIII it is seen that the chance of a second family becoming infected in a house where there is scarlet fever is very small, as it happens in only about eight per cent. of the families thus exposed. This is about the same as in diphtheria. As in diphtheria, it also is seen, from Table XXIV, that in the majority of these second families scarlet fever develops during the first ten days of the initial sickness, indicating that infection takes place before the placard is put upon the house. And as in diphtheria, so in scarlet fever, it is known that in most cases of the extension of the disease after it has been recognized there has been direct communication between the families. In fact everything goes to show that two or more families may live in the same house using hallways, doors and even water closets, in common, without scarlet fever extending from one to the other. All that is necessary is that there shall be absolutely no visiting between the families and that the children shall never meet in play. There is no more evidence that scarlet fever is ever borne by the air from one family to another than that diphtheria is. It is probable of course that some of the second families living in the house with scarlet fever that are attacked, get their infection from outside sources. It also appears that some contract it because the warning sign is removed, as sometimes happens, before the first fam-

ily is free from infection. It also doubtless sometimes happens that families, after maintaining isolation for several weeks, become careless and so permit the extension of the disease during its later stages.

For a number of years inunction was urged as a means of preventing the extension of the disease in the family on

TABLE XXIV.

SCARLET FEVER.

Infection of other families in the house.

Day of primary sickness.	Number of families attacked.	Number of families attacked after disinfection.	Day of primary sickness.	Number of families attacked.	Number of families attacked after disinfection.
1	8	.....	21	7	.....
2	6	.....	22	3	.....
3	10	.....	23	2	.....
4	13	.....	24	5	.....
5	6	.....	25	6	.....
6	10	.....	26	5	.....
7	11	.....	27	2	.....
8	7	.....	28	6	.....
9	7	.....	29	2	.....
10	3	.....	30	3	1
11	5	.....	31	4	1
12	3	.....	2d month.	18	5
13	5	.....	3 "	.....	1
14	3	.....	5 "	.....	1
15	7	.....	9 "	.....	1
16	2	.....	10 "	.....	1
17	1	.....		
18	.....	.....		179	11
19	5	.....		
20	4	.....		

the hypothesis that the desquamation was the chief source of infection. Of 682 families where inunction was practiced, it extended beyond the initial case in 372 or 54 per cent. But the average for all families during the same period was 47 per cent. showing that there was a greater tendency for the disease to spread where inunction was practiced. This was probably due to the fact that owing to the reliance placed upon inunction less attention was paid to isolation.

For a number of years the attempt was made to distinguish between those families where a decided effort was made to isolate the patient from the rest of the family, and those where no such effort was made. This attempted classification was not very satisfactory for it was difficult to determine how well the isolation was really carried out or how long it continued. Nevertheless the data such as they are, are somewhat instructive. During the period when these observations were made a fairly good isolation was maintained in 490 families in which the disease extended beyond the first case in 170 or 35 per cent., while in families where there was no isolation it was 46 per cent. In the isolation families there were 1,436 children of whom 616 or 42 per cent. were attacked, while in the non-isolation families out of 9,728 children 5,156 or 53 per cent. were attacked. To put it in other words, if isolation had been maintained in all the families 1071 children might have been prevented from contracting the disease. In estimating the value of isolation as indicated by these figures it must be remembered that in many of the instances where it was said to be maintained it was far from ideal. Observation of individual cases would show that it is possible but not easy to so isolate a scarlet fever patient that there is no danger of the extension of the disease in the family after its recognition.

The following table gives data in regard to scarlet fever similar to those given in Table XIX, in regard to diph-

theria. It shows at what period of the disease secondary cases are most likely to develop. From it can be determined the probability of any well member of the family being attacked at any time during the course of the primary cases.

TABLE XXV.

SCARLET FEVER.

Date of attack of secondary cases in same family.

Day of primary sickness.	Number of second cases.	Percentage attacked on each day.	Total number of secondary cases.	Percentage attacked on each day.	Day of primary sickness.	Number of second cases.	Percentage attacked on each day.	Total number of secondary cases.	Percentage attacked on each day.
1st Day	154	9.6	170	7.4	21st Day	14	.8	23	1.0
2 "	115	7.2	130	5.6	22 "	29	1.8	45	1.9
3 "	133	8.3	169	7.3	23 "	9	.5	20	.8
4 "	141	8.8	171	7.4	24 "	14	.8	17	.7
5 "	125	7.8	176	7.7	25 "	14	.8	28	1.2
6 "	83	5.2	115	5.0	26 "	9	.5	19	.8
7 "	68	4.2	95	4.1	27 "	12	.7	18	.7
8 "	154	9.6	211	9.2	28 "	11	.6	16	.7
9 "	48	3.0	86	3.7	29 "	11	.6	18	.7
10 "	61	3.8	94	4.1	30 "	6	.3	11	.4
11 "	52	3.2	81	3.5	31 "	10	.6	15	.6
12 "	34	2.1	69	3.0	32 "	14	.8	18	.7
13 "	33	2.0	56	2.4	33 "	4	.2	4	.1
14 "	21	1.3	39	1.7	34 "	2	.1	5	.2
15 "	74	4.6	102	4.4	35 "	2	.1	9	.3
16 "	21	1.3	35	1.5	6th Week	14	.8	29	1.2
17 "	15	.9	26	1.1	7 "	13	.8	29	1.2
18 "	23	1.4	46	2.0	8 "	9	.5	17	.7
19 "	20	1.2	36	1.5	9 "	13	.8	19	.8
20 "	10	.6	17	.7					

As in diphtheria, so in scarlet fever, it is an advantage to remove the well children in the family at the earliest possible

moment. The number thus removed, and the number of these who were afterwards taken sick, is shown in the following table. This table covers a period of seventeen years. Children who return home before the placard is removed are not included, except those who are attacked while away.

TABLE XXVI.

SCARLET FEVER.

Benefit to well persons of removal from infected families.

Day of sickness of primary case.	Percentage of removals each day.	Age of those removed.	Number removed.	Day of absence on which sickness developed.	Number taken sick.
1	25	Under 1	19	1	8
2	28	1	40	2	8
3	24	2	58	3	7
4	11	3	58	4	4
5	5	4	65	5	2
6	2	5	59	6	.....
7	1	6	74	7	8
8	.9	7	69	8	3
9	.9	8	62	9	2
10	.2	9	62	10	1
11	.9	10	54	11	.....
12	.....	11	48	12	3
13	.....	12	48	13	.....
14	.....	13	58	14	1
15	.4	14	65	15	1
16	.2	15	37	16	1
17	.....	16	35	17	.....
18	.2	17	39	18	.....
19	.....	18	24	19	.....
20	.2	19	25	20	2
21	.....	20	13	28	1
22	.2	Adults.....	39	.....	.....
			1,061		52

During the last seventeen years, from 652 families infected with scarlet fever there have been removed 1,051 persons, mostly children, none of whom had had the disease. If these had remained at home it is probable that 143 of them would have had the disease or 1 in 7. Actually 52 were attacked while away from home or 1 in 22. There were also 19 who were attacked on their return, making in all 71 or 1 in 18. The protection afforded by removal of the well persons from the infected house is much greater than is obtained by removing the patient to the hospital, just as it is in diphtheria, and doubtless for the same reasons. There appears to be a greater liability in scarlet fever than there is in diphtheria to contract the disease when the children come home. The data are not extensive enough to render this certain but I am inclined to think it is so, for we find also that scarlet fever patients returning from the hospital are more likely to infect others than are diphtheria patients. This is probably because our present method of determining when a diphtheria patient is free from infection is surer than our method of determining when a scarlet fever patient is free from infection. It may also indicate that the scarlet fever infection continues longer and is more difficult to destroy.

Of the nineteen cases which were taken sick on their return after removal from home, one was attacked on the 3d day after return, two on the 6th, two on the 7th, one on the 9th, one on the 10th, two on the 11th, two on the 12th and one each on the 13th, 14th, 17th, 24th, 25th, 26th, 28th and 36th day. It is not improbable, of course, that some of the latter may have contracted the disease elsewhere than in their homes.

SMALL POX.

The following table shows the number of cases and deaths for each month, and the number and ratio of cases and deaths each year during the last twenty years.

TABLE XXVII. SMALL POX.

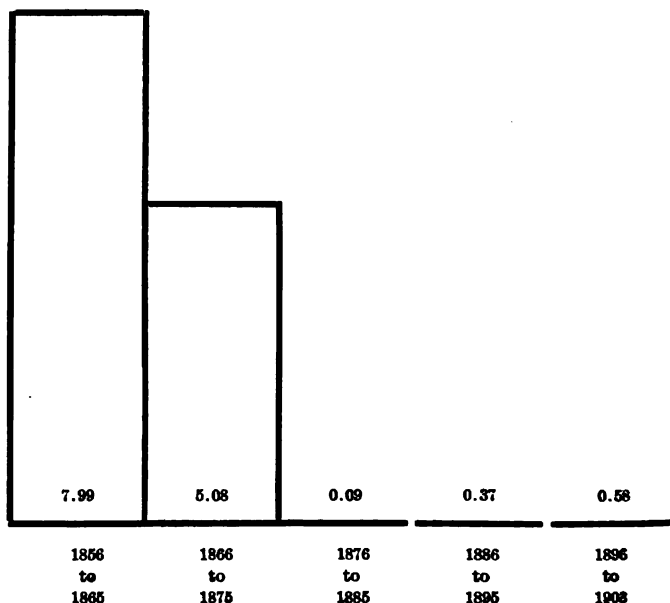
YEAR.	JAN.		FEB.		MAR.		APRIL.		MAY.		JUNE.		JULY.		AUG.		SEPT.		OCT.		NOV.		DEC.		Total Cases.		Total Deaths.		Ratio of Deaths to Cases.
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.					
1884.....																													
1885.....																													
1886.....																													
1887.....													1												1				
1888.....																													
1889.....																													
1890.....																													
1891.....																													
1892.....	1	11				2	2																		4	3	75.00		
1893.....																													
1894.....					2	12	1																		4	2	50.00		
1895.....																													
1896.....																													
1897.....																													
1898.....																													
1899.....	1				2	1	1																		5				
1900.....																													
1901.....					2		7	21																	10	2	20.00		
1902.....	3	19	212	11	3	24	3	1													2	1			48	6	12.50		
1903.....																				1					5				
Totals.....	3	111	313	17	38	316	25	1											1		2	1	1		77	13	16.9		

The following diagram shows the number of deaths from Small Pox per 100,000 living by periods for forty-eight years.

DIAGRAM XVIII.

SMALL POX.

Deaths per 100,000 Living.



The above is not comparable to similar diagrams in this report as it is on a much larger scale.

On June 5th a man thirty-one years old, living at 63 Hilton Street was taken sick and on June 11th was reported by the attending physician, Dr. W. G. Sullivan, as probably suffering from small pox. The diagnosis was confirmed by Drs. King and Leonard, and the patient, his wife, and two children were at once removed to the Field's Point Hospital. Another child four years old had on June 8th,

been placed with the family down stairs. On June 12th he was found to have small pox and was also removed to the hospital. Another child two years old seemed to have a typical measles eruption when moved to Field's Point although there were a few of what appeared to be small pox papules to be seen at the same time. The baby eleven months old had a few vesicles at the time she was removed to the hospital. She developed a typical measles eruption, though with few prodromal symptoms, on June 21st. The mother did not have small pox. The father had a fairly typical case of small pox but in the children the eruption was slight. The father and mother had been vaccinated in childhood but the children had never been. This family had on May 24th and 25th visited Mr. Harrington's brother at Harris, and it was afterwards found that this brother's family had small pox in mild form at that time. The total cost of this outbreak was \$1,198.34. The hospital was closed on July 16th.

On November 2d, Gertrude Robinson, twenty-two years old, of 753 Westminster Street went to the outpatient department of the Rhode Island Hospital. She was seen by Dr. Kimball, who made a diagnosis of small pox and she was at once removed to the hospital at Field's Point. The case was a mild one and she was discharged and the hospital closed on November 21st. It was later learned that the patient had on October 13th to 17th been exposed in a house where there was small pox in Brewer, Mr. The Robinson girl refused vaccination and was kept in the house with the patient until she escaped October 17th and came to Providence. She was stopping in Providence with Mr. and Mrs. Charles Russell and Henry Russell. The former had been successfully vaccinated within a year or two but Henry Russell had never been. The Russells were all revaccinated and Henry's was successful, but the others were not. They all went to the hospital and Mr. and Mrs. Charles Russell were paid \$10 a week each for taking care of the

hospital and cooking. A trained nurse was also employed. The few persons who had been exposed were vaccinated and kept under observation, but no other cases developed. Disinfection as described in previous reports was done in all these cases. The cost of this case was \$331.92.

GENERAL CONCLUSIONS.

Recent Development of Sanitary Science:

The last fifteen years of the 19th century were marked by the greatest progress that sanitary science has ever made. Although a few important facts had previously been discovered such as the protective power of vaccination and the importance of fecal matter in the transmission of cholera and typhoid fever, it may almost be said that the science of sanitation had no existence until Koch, in 1878, discovered those methods of bacteriological research which were to do so much to solve the problems of the cause of the infectious diseases. But it was some years before these methods bore fruit, and even now the notions in regard to sanitation, which prevailed previous to Koch's time, are quite generally accepted, sometimes even by medical men and health officers. Up to within the last quarter of a century it was generally believed that one of the chief factors in the causation of the infectious diseases was decaying animal and vegetable matter and the gases or other emanations from the same. Where such could not be considered the cause of the infection, the latter was attributed to epidemic influences, by which was meant peculiar but entirely unknown atmospheric influences. Such being the current views in regard to the cause of disease, the removal of filth was considered the most important sanitary measure and the health officer was first of all a nuisance inspector. The contagious nature of the infectious diseases was only slightly recognized, for even as late as 1870 Dr. Snow found it necessary to combat the popular idea that small pox, the most clearly contagious of all diseases, was

due to "epidemic influences." The chief result of modern research has been the demonstration that the infectious diseases are caused by minute parasites or germs, and that they are transmitted from one person to another, usually in a pretty direct manner. In other words, these diseases, which it is the chief duty of the Health Department to combat, are contagious. The old notions as to the filth origin of disease were the prevailing ones when I was first elected Superintendent of Health in 1884, and were of course, largely accepted by me, although even in my first report I stated that "too much attention and expense is bestowed by most health departments upon nuisances. . . . Yet there is no doubt that more attention might well be given to the prevention of the more common infectious diseases and more time devoted to their scientific investigation."

While the contagious nature of the diseases under consideration has been established by both experiment and clinical observation very much remains to be learned about the exact mode in which they pass from one person to another. It is plain that our success in fighting these diseases must depend largely upon our knowledge of this mode of transmission. Views, which were current only a few years ago, have been very largely modified. Most of the views formerly held were mainly theoretical and many of our modern ideas are also largely theoretical. Nevertheless, substantial progress has been made in our exact knowledge of the ways in which these diseases are transmitted. Many established facts have taken the place of theory in directing our modes of combating the communicable diseases.

The Transmission of Contagious Disease by Well Persons:

One of the most important facts which has been recently discovered concerning the contagious diseases is that persons who are perfectly well, or who are only slightly ill, are very frequently infected with the disease and are capable of giving it to others. This is also a discouraging fact,

and it has taught us that it is much more difficult to eradicate, or even to partially control these diseases than was at one time supposed. It was formerly believed that nearly every case of scarlet fever, diphtheria, smallpox, typhoid fever, yellow fever and the like would come to the notice of physicians. It was also believed that if physicians would report to the Health Department all persons sick with these diseases they could be isolated and the diseases stamped out. If every infected person *could* be isolated doubtless it would not be so very difficult to exterminate these diseases. Unfortunately, there appear to be a very considerable number of extremely mild cases of most of the infectious diseases, so mild that they never see a physician and are not prevented from continuing their ordinary avocations. The greater skill of physicians of the present day, the greater ease with which the poor can obtain medical services, the increased care exercised by school teachers and by parents, and the efforts of health officers in searching for the cause of disease, have shown that the number of mild, unrecognized cases of infectious disease are extremely common, in fact, sometimes more numerous than the better developed cases which are reported and isolated. The history of small pox outbreaks shows that they are usually due to mild cases which have seen no physician. The study of typhoid fever, particularly in the army, has shown that there are large numbers of so-called "walking cases," which a few years ago would not have been recognized as having the disease. Researches in tropical countries have demonstrated that mild cases of yellow fever, and sub-acute cases of malaria, are the chief factors in the spread of these diseases. During the present outbreak of scarlet fever in this city, the mild unrecognized cases have been extremely numerous. In diphtheria it has long been recognized that some cases are very mild, but it is only within the last few years that it has been shown that a very large number of what are commonly called simple "sore throat," are in reality true diphtheria.

All of the above facts have been well established by clinical evidence alone, but the laboratory study of these diseases, the bacteriological and blood examinations of suspects and of convalescents and of persons who have never been sick at all, show that the infection of these diseases is more widespread and lasting than was formerly suspected. It has of late been demonstrated that in some of these diseases it is not possible to set a hard and fast time limit beyond which it is certain that the patient will be free from infection. While in most cases of scarlet fever, diphtheria and typhoid fever, the period of infection is over in from two to four weeks, yet there is a small proportion of cases in which the person may remain infectious for many weeks and even for many months. In diphtheria and typhoid fever clinical evidence to this effect is substantiated by the evidence afforded by bacteriology, for the germs of these diseases are frequently found developing for a long time in convalescents.

Not only are mild cases extremely common, and convalescents often infectious for a long period, but it has also been demonstrated that many persons who have never been sick at all yet harbor in themselves growing and virulent disease germs. Thus it has been shown by an extended series of observations that there are always present in our large cities scores and hundreds of persons who have never been sick, but in whose throats and noses virulent diphtheria bacilli are growing. It is not unlikely that the number of such cases is greater in diphtheria than in most diseases, but it is also likely that in all the infectious diseases the number of well persons dangerously infected with the germs of the disease, though themselves showing no symptoms, is very large.

If unrecognized cases and convalescents, and well persons who are dangerously infected, are so numerous in all large communities, is it not reasonable to suppose that they are by all odds the chief factor in the spread of the com-

municable diseases? It is in most cases impossible to trace the origin of reported cases of the common infectious diseases, but when they are traced they are almost always found to be due to exposure, not to some recognized case, but to some of the sources above mentioned.

Transmission of Disease Somewhat Difficult:

Not much more than half the susceptible children in an infected family will contract the disease. It commonly happens that a case of small pox, scarlet fever or diphtheria may remain for days or even weeks in a lodging house, school, or public institution without infecting anyone else or at the most infecting only one or two. As has been shown in this report scarlet fever and diphtheria rarely extend from one family to another in the same house, unless there is free communication. Physicians and others who are constantly passing from the sick to the well only very exceptionally carry these diseases. We know more about the mode of extension of diphtheria than of any other disease, and in view of what we know it is not surprising that one may be "exposed" to this disease for quite a while without contracting it. The bacilli of diphtheria do not live long outside of the body. They are contained almost exclusively in the secretions of the nose and mouth. They are not given off in the breath and they are rarely carried by the air. It is only when the fresh secretions from the sick person pass pretty directly to the mouth and nose of others that infection takes place, hence it happens that doctors and nurses who take great precautions in regard to the infection are rarely attacked. Children living downstairs do not take the disease from children living upstairs, but sixty per cent. of children from two to six years of age contract the disease when exposed in the family. This is not surprising when we remember what an enormous chance there is for the interchange of secretions among young children who are constantly playing together.

Diseases Are Rarely Air-borne:

Disease germs are not given off from moist surfaces. They are not found in the expired air during ordinary breathing. In many diseases they are thrown off during coughing and sneezing and hence to be near a sick person at such a time is dangerous. Of course, everything that the patient comes in contact with may become more or less soiled with the secretions of the nose and mouth, and even with the fecal and urinary excretions. Such material cannot get into the air and float about until it is dry and pulverized. But dryness and light rapidly destroy the commoner disease germs, and it is very rarely that the germs of diphtheria for instance, can be found in the air or upon the articles in a room occupied by a diphtheria patient. Theoretically then we should not expect diphtheria or similar diseases to be transmitted by currents of air. As a matter of fact there is no evidence to show that they are carried in any such way. While there is some dispute in regard to the transmission of smallpox from hospitals to neighboring houses by means of the air, the weight of authority seems to be against this, and certainly it has never occurred in Providence. There is no evidence that scarlet fever and diphtheria are ever transmitted from one house to another in any such way. And even in the same house these diseases are never carried from one family to another in this manner. In the family, too, it is possible to keep the patient in one room and prevent the infection of other members of the family, although the doors may be freely opened all the time.

The Extension of Disease by Fomites:

It is a generally received doctrine even among health officers and physicians, that the contagious diseases are frequently, perhaps usually, carried in fomites. The clothing of the patient, of his family, of the nurse and physician, bedding, carpets, hangings, the fur of the cat and the hair of the dog, are all accused of transmitting scarlet fever

from sick to well. The whole room, in fact the whole house, including walls, pictures and ceiling are supposed to be dangerously infected. The importance attached to fomites in this connection has always seemed to me to be based on very weak evidence. Many cases are recorded where it is possible that the disease was transmitted in this way, but this is very different from proving that it was so carried. It is possible that diphtheria may be carried in the clothing of the parent of a sick child, but it is also possible and many times more likely that it may be carried living and growing in the father's throat, implanted there by a kiss before it was recognized that the child had the disease. The greatest blow to the fomites theory has been the recent discoveries in regard to yellow fever. The evidence in favor of the transmission of yellow fever in fomites is many times stronger than for any other disease, yet it is now proved beyond question that yellow fever is never transmitted in this way. All of which goes to show that the evidence that fomites play an important role in the spread of disease, is, as I have always considered, decidedly weak.

The guiding principle of effective sanitation is that it is infected persons not infected things that are to be feared.

Concerning the Value of Disinfection:

Disinfection of the sick room or the house and its contents, after recovery from contagious disease is supposed to be complete, has been long considered to be one of the most important means of combating these diseases. There is, however, reason to believe that it is not nearly as essential as has been supposed. As has been before stated, the germs of the more common diseases do not grow outside of the body, and exposed to the ordinary conditions of light and dryness indoors quickly lose their vitality. It is possible, it is true, that very occasionally under particularly favorable circumstances these germs may long remain alive upon articles to which they become attached. But this cer-

tainly very seldom happens, and it is doubtful even if no official disinfection were practiced, if any appreciable number of cases would be caused in this way. When the disease passes from one person to another by means of infected articles it seems certain that in the great majority of cases the interval of time must be short. Spoons, tumblers, pencils, money, pipes, whistles, handkerchiefs, and a host of such articles become smeared with the secretions of an infected person. If these things come in contact with the mouth or nose of another person, if the interval of time is short, infection is very likely to take place. If the interval is long it is not likely to take place. These diseases spread because of such direct contact with unrecognized cases, with convalescents released from isolation and with infected well persons. They do not spread because a house or its contents remain infected for weeks and months after the warning sign has been removed. If this view of the situation is correct, and the evidence in its favor is far stronger than for the views formerly prevailing, it is evident that after the patient is isolated in the house the most important thing is to take the greatest care of all the secretions and excretions, that they may not while fresh come in contact with others. If this is done during the whole course of the disease others will not become infected. Even if it is neglected, thorough housecleaning at the end of the sickness and washing of everything with which the patient came in contact will remove most of the disease germs, even if they remained alive. The very few which might still persist would speedily die.

At present my ideas in regard to disinfection are:

First. That the most effectual disinfection is the strictest cleanliness daily throughout the whole course of the illness.

Second. That the methods employed by this department are only effective to a moderate degree, if infection of the house and its contents is as great as is generally believed.

Third. That for the city to carry out a system of thorough disinfection would be very troublesome, annoying and expensive.

Fourth. That in diphtheria where after recovery the patient and other members of the family frequently continue to grow the germs in their throats for weeks, and in those cases of tuberculosis where no attempt to care for the sputum has been made during the sickness, any disinfection is a farce.

Fifth. That the necessity for disinfection in any case has been greatly exaggerated.

The Agency of Schools in the Extension of Communicable Disease:

It is generally believed that the intercourse of children in school is an important factor in the spread of infection. There is no doubt that the contagious diseases are disseminated to a certain extent in this way, school outbreaks do occur, and children from different neighborhoods undoubtedly at times contract the disease from one another in school. It has seemed to me of late that the schools are not such an important factor in the spread of these diseases as I at one time supposed. It is certainly true that during the long summer vacation the contagious diseases of childhood prevail less than at other seasons, and it has been alleged that a diminution of these diseases can be noticed after the shorter vacations and recesses at other seasons of the year. Elaborate investigations made in London would seem to indicate that the summer vacation does really have this supposed effect. In order to study the question in Providence I prepared a diagram showing by means of perpendicular lines the number of cases of scarlet fever and diphtheria reported each week for the past ten years. The vacation periods were also indicated.

From an inspection of this diagram it was readily seen that these two diseases tend to diminish during summer weather.

It is true that the season of least prevalence is that of the long summer vacation, but this vacation comes in July and August, or during the period of greatest heat. It is a reasonable hypothesis that the decrease of these two diseases in the summer is dependent in some way upon the temperature, rather than upon the vacation. This hypothesis is strengthened by a more detailed consideration of the facts. Thus it is seen that in every year scarlet fever began to diminish in June before the vacation, and on three occasions in 1894, 1895, and 1899, began to increase before the end of the vacation. Diphtheria does not show as marked a tendency to decline in warm weather as does scarlet fever, but it is nevertheless evident. In the years 1896, 1897, 1898, 1899 and 1902 it did diminish in June before the vacation. It is also noticeable that in 1895, 1896 and 1903 there was a slight increase of this disease after the closing of the schools; also on four occasions, in 1895, 1896, 1900, and 1903, the fall increase began before the opening of the schools. There appears to be little reason for thinking that the decrease in scarlet fever and diphtheria during July and August is due to the vacation.

It hardly seems likely that the short recesses would have any effect on the prevalence of the contagious diseases. If the vacation really did diminish the disease we should expect fewer cases reported in the week after the vacation than during the week of the vacation. After the twenty-six short vacations, diphtheria decreased in ten, increased in thirteen and remained the same in three. Scarlet fever diminished in eleven, increased in ten and remained the same in five.

During the last 20 years the number of what may be called school outbreaks of scarlet fever and diphtheria have not been very numerous. I have notes of 11 instances in which it appeared quite certain that local outbreaks of diphtheria were due to infection in school. The largest number of cases occurring in any school during an out-

break was 36. In another instance there were 25, in another 18, in another about the same, and in 2 instances 13 cases each. A number of these outbreaks are referred to in some detail in previous reports. In nearly every instance it seemed almost certain that the outbreak was due to the presence of unrecognized cases in school, and in several instances this was demonstrated to be so. In one case a school was closed for a month and reopened without the recurrence of any other cases. In the other schools the outbreak sometimes disappeared of itself, and was sometimes checked by the finding of the unrecognized case which was the cause of the trouble. One of these school outbreaks was in a private school.

There have probably been six school outbreaks of scarlet fever, one of which, involving 28 cases, was in a parochial school, and was probably due to the presence in the school of a case of scarlet fever which the attending physician deliberately failed to report. In three of the outbreaks it was found that a child was attending school while desquamating from the disease. It is curious to note that in one of these cases two children with this disease were in the same school for over three weeks and yet only 4 other cases developed.

It is the custom in this department not to exclude from school, children in the house, except those of the family in which the disease actually exists. If, however, it is believed that there will be no isolation, and there will possibly be a mingling of all the children in the house, they are all excluded. This, however, is not done in more than a quarter of the cases.

In diphtheria, children in the non-infected families are not generally allowed to go to school until a negative culture has been obtained from the throat. Of ninety-six children who were thus examined in 1903, four showed the presence of diphtheria bacilli. During 1903 permits were given to 46 children living in 37 "infected houses," but not in infected families, to attend school. During the past

eight years the figures are 467 children in 179 families. In none of these did the disease develop, which indicates that it is quite safe to permit children in the infected house but not in the infected family, to attend school, except in those cases where manifestly no care is taken.

In scarlet fever children in the non-infected families are in most instances allowed to attend school. If they have had the disease previously they are given their permits at once, but if they have not had the disease they are usually kept out of school for a week. During 1903 permits were given to 35 susceptible children in 21 families. During the past eight years the figures are 310 children in 188 families. In none of these has the disease developed.

To summarize some of the important things which have been learned in recent years concerning the more common infectious diseases it may be said that the germs of these diseases rarely grow outside of the body, that they in most instances die quite quickly when removed from the body, and that therefore infection usually takes place quite directly; that the transference of the fresh secretions and excretions of the body from one person to another is the principal mode by which these diseases extend. Things do not readily become infected and do not as a rule remain infected long. It is infected persons not infected things that are to be feared.

We have also learned, and it is a most discouraging fact, that infected persons are much more numerous than was formerly supposed. It is the convalescent, the infected well person, and the unrecognized case, that do the harm. At present there seems to be no possible way of learning of these cases or of securing their isolation. It is most encouraging however to know that by strict attention to personal cleanliness and avoiding the secretions of others, each one has it very largely in his own power to avoid the infectious diseases. The preaching of personal cleanliness has now to a large extent taken the place of the preaching of municipal cleanliness.

Owing to the fact that in all our cities the number of unknown infected persons is so great, it is evident that even absolute isolation of the recognized cases cannot stamp out the disease, and it is the fact that scarlet fever and diphtheria have not been stamped out in any of our large cities. If that is so, and if it is true that moderate measures of isolation will prevent most of the danger of the extension of the disease from the isolated cases, is it not wiser not to insist upon too stringent measures. Undue severity will defeat the object sought by causing the concealment of cases. The principal measures to be adopted in large cities in diphtheria and scarlet fever seem to me the isolation of the patient until such time as most of the danger is over and to restrict school attendance of other members of the family, but not to interfere much with the work of adult members. The most important means of securing isolation is the use of the warning sign upon the house.

What has been said in regard to the advisability of moderate measures refers only to large cities and those diseases such as scarlet fever, diphtheria, measles, whooping cough, etc., that have become well established there. Whenever these diseases appear in a country town or any other isolated community, such as a public institution even in a large city, the most stringent measures of isolation should be adopted, and it is then possible that the disease may be stamped out before infection becomes general. When a new disease, such as small pox or plague, appears in even the largest cities these same stringent measures should be adopted and they frequently are adopted with the desired result. When diseases have become as well established as scarlet fever and diphtheria are in most large cities to-day, we can hope, under present conditions, merely to hold them within certain limits, not to banish them entirely.

EXPENSES OF THE HEALTH DEPARTMENT.

The following were the expenses of the Health Department for the year ending September 30, 1903:

Salary of Superintendent of Health.....	\$2,000 00
Collection and removal of garbage.....	\$27,590 04
Care of dumps.....	469 50
Inspector of Nuisances.....	1,200 00
Filling privy vault.....	5 00
Work on drain.....	9 25
Removal of dead animals.....	2 00
	<hr/> 29,275 79

Small pox (four cases)	\$1,198 34
Board of other communicable diseases at Rhode Island Hospital	8,937 43
Salary of Medical Inspector.....	1,500 00
Vaccination	874 97
Disinfection	1,187 26
Quarantine	254 25
Laboratory	5 12
	<hr/> 13,907 37

Collecting returns of births, marriages and deaths	\$2,191 05
Recording returns of births, marriages and deaths	2,379 93
	<hr/> 4,570 98

Horses, wagons, buggy and ambulance.....	1,204 18
Inspector of Provisions.....	1,200 00
Clerk	469 50
Telephones	205 00
Printing	195 12
Postage	175 00
Office supplies	161 99
Car fare	70 00
Binding	19 47
Miscellaneous expenses	18 05
	<hr/> \$53,470 45

The following is my estimate for the expenses of the Health Department for the fiscal year ending September 30, 1905:

Salary of Superintendent of Health.....	\$2,000 00
Removal of Swill.....	30,000 00
Board and treatment of persons afflicted with contagious diseases	15,000 00
Reporting and recording births, marriages and deaths.....	5,000 00
Clerks and inspectors	6,000 00
Vaccination expenses	2,000 00
Printing, stationery and supplies.....	1,000 00
Horse, wagon and ambulance expenses.....	1,500 00
	<hr/>
Amount carried forward.....	\$62,500 00

Amount brought forward.....	\$62,500 00
Disinfection expenses	1,000 00
Fees of quarantine sentinel.....	250 00
Ascertaining and certifying as to cause of death.....	200 00
Car fares	150 00
Supplies for laboratory	50 00
Carriage hire	50 00
Rent of telephone	250 00
Miscellaneous	550 00
Total	<hr/> \$65,000 00

Respectfully submitted,

CHARLES V. CHAPIN,

Superintendent of Health.

VITAL STATISTICS.

YEAR.	Population.	Living Births.	Living in Births in each 1,000.	Still Births.	Marriages.	Persons Married in each 1,000.	Deaths.	Deaths in each 1,000.
1894.....	143,000	4,026	28.15	191	1,527	21.85	2,900	20.28
1895.....	145,472	3,998	27.48	199	1,622	22.30	3,090	21.24
1896.....	150,000	4,158	27.72	219	1,599	21.32	2,963	19.75
1897.....	154,000	4,148	26.93	220	1,493	19.39	2,818	18.30
1898.....	162,000	4,267	26.34	208	1,601	19.77	2,931	18.09
1899.....	168,000	4,297	25.57	211	1,672	19.90	3,067	18.85
1900.....	175,597	4,569	26.02	207	1,907	21.72	3,080	20.96
1901.....	178,000	4,694	26.37	216	1,875	21.07	3,444	19.35
1902.....	181,000	4,746	26.22	216	2,043	22.57	3,395	18.76
1903.....	185,000	4,935	26.67	252	2,238	24.19	3,900	21.08

POPULATION.

Census, June 1, 1890	132,146
“ Jan. 1, 1893	148,944
“ June 1, 1895	145,472
“ June 1, 1900	175,597
Estimated July 1, 1904.....	193,000

AREA.

18.29 square miles.

1904.]

CITY DOCUMENT.

[No. 17.]

EIGHTY-SIXTH
QUARTERLY REPORT
OF THE
Department of Public Works
OF THE
CITY OF PROVIDENCE, R. I.

QUARTER ENDING JUNE 30, 1904.



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1904.

REPORT.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS, }
CITY HALL, PROVIDENCE, R. I., July 1, 1904. }

TO THE HONORABLE THE CITY COUNCIL :

In compliance with the requirements of Chapter 41 of the ordinances, the Commissioner of Public Works respectfully presents the eighty-sixth quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending June 30, 1904.

WATER WORKS.

April 4th, the proposal of the Allis Chalmers Company, of Milwaukee, Wis., to furnish and erect a 25,000,000 gallon high-duty pumping engine at Pettaconset, was accepted and a contract subsequently executed. Amount \$95,000.00.

April 29th, the proposal of the Wheeler Condenser and Engineering Company to furnish for the Pettaconset pumping station a Wheeler admiralty surface condenser, for the sum of \$940.00, f. o. b. New York, was accepted.

May 25th, the proposal of the Alphons Custodis Chimney Construction Company to erect at the Pettaconset pumping station a chimney 150 feet high and 7 feet diameter, for the sum of \$5,000.00, was accepted.

June 3d, the proposal of the Providence Coal Company to furnish and deliver at Pettaconset 400 tons of New River coal during June, 1904, at \$3.62 $\frac{1}{2}$ per net ton, was accepted.

June 7th, the proposal of the Eastern Coal Company to furnish all the egg size anthracite coal needed to July 1, 1905, at \$5.15 per net ton, at their yard, was accepted.

June 23d, the proposal of the Pocasset Ice Company to furnish the ice required in the various drinking fountains during the season of 1904, for the sum of \$2.25 per ton, was accepted.

June 29th, the proposal of The Congdon and Carpenter Company to furnish and deliver at the city yard 10,000 pounds of AAA $\frac{1}{8}$ -inch lead pipe for \$5.20 per 100 pounds, was accepted.

The proposal of the Eastern Coal Company to furnish and deliver at Hope pumping station the No. 2 buckwheat anthracite coal needed to July 1, 1905, at \$2.48 per net ton, was accepted.

June 30th, the proposal of the Eastern Coal Company to furnish and deliver at Pettaconset during July, 1904, 400 tons of New River coal at \$3.58 per net ton, was accepted.

The average daily consumption of water during the last quarter was 12,908,326 gallons.

Water pipes were laid during the quarter as follows:

8-INCH.

In Admiral, East River, Pitman and South Angell streets; and in Smith street in the town of North Providence....	2,578.41 feet.
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6-INCH.

In Dryden lane; Montcalm and Rodney courts; Augusta, Broom, Cumberland, Devonshire, Dickens, Eighth lanthe, Longfellow, Pilgrim, Stone, Tell, Tenth, Veto and West Park streets; Carrington, Edgemere and Massie avenues; in Strathmore road; Dover, Lancaster and Smith streets; Lynn, Lowell and Richfield avenues in the town of Cranston.....	6,012.39 feet.
Total.....	8,590.80 feet.

or 1.627 + mile.

Water pipes were abandoned or removed during the quarter as follows :

8-INCH.

From East River and South Angell streets..... 1,026.57 feet.

6-INCH.

From Pitman street..... 254.73 feet.

Total..... 1,281.30 feet.

or .242 + mile.

Statement of sizes and lengths of pipe laid since the commencement of the work :

36-inch	10,084.00 feet.
30-inch	61,328.30 feet.
24-inch	43,758.29 feet.
20-inch	9,626.59 feet.
16-inch	33,812.95 feet.
12-inch	104,991.24 feet.
10-inch	15,057.14 feet.
8-inch	292,695.42 feet.
6-inch	1,237,319.30 feet.

Total..... 1,808,673.23 feet.

or, 342.551 + miles.

Statement of sizes and lengths of pipe laid for the special water service for fire protection since the commencement of the work :

24-inch	4,188.58 feet.
16-inch	23,004.37 feet.
12-inch	2,215.76 feet.

Total..... 29,408.71 feet.

or, 5.569 + miles.

Seventeen fire hydrants have been set during the quarter, one in each of the following locations :

Alumni avenue, north side, 252.5 feet east of Hope street.
Algonquin street, north side, 17 feet west of Reservoir avenue.
Binney street, north side, 252 feet east of Niantic avenue.
Burrington street, north side, on range of east line of David street.
Douglas avenue, north side, 114 feet northwest of line of Veazie street.
Dryden lane, south side, 4.5 feet east of building line of Printery street.
Eighth street, north side, 267 feet east of building line of North Main street.
Gordon avenue, east side, 172 feet south of building line of Oxford street.
Marlborough avenue, north side, 291 feet west of building line of Taylor street.
Milk street, west side, 3 feet south of building line of Chester avenue.
Mitchell street, north side, 285½ feet west of building line of Niagara street.
Ontario street, north side, 266.5 feet west of building line of Niagara street.
Oxford street, north side, 3 feet east of building line of Croyland road.
Pitman street, north side, 195 feet west of range of East River street.
Princeton avenue, south side, 256 feet west of building line of Updike street.
Spencer street, south side, 179.5 feet west of building line of Almy street.
Union avenue, north side, 12 feet east of building line of Huntington avenue.

The total number of fire hydrants, exclusive of those for special service for fire protection, is now two thousand and eleven — nineteen hundred and eight flush, and one hundred and three post.

The total number of fire hydrants on the special water service for fire protection is ninety-two.

During the quarter, two hundred and fifty-six water meters were set, of which number sixty-two were to replace other meters. The use of thirteen meters was discontinued.

The following meters were in use at the close of the quarter :

KIND.	SIZE.									Total.
	$\frac{3}{4}$ -in.	$\frac{1}{2}$ -in.	1-in.	1 $\frac{1}{4}$ -in.	2-in.	3-in.	4-in.	6-in.	8-in.	
Ball & Fitts.....	2,071	427	100	11	5					2,614
Ball & Fitts, rotary.....			4	7		2	1			14
Crown.....	9,425	1,104	327	143	38	25	25	1		11,088
Empire.....	1,002	143	63	46	13	1	1			1,269
Fales, Jenks & Sons.....			1							1
Gem.....					13	28	16	3		60
Thomson.....	4,335	424	75	53	22	7	7	2		4,925
Trident.....	102		1							103
Venturi.....									1	1
Worthington.....	1				1					2
	16,936	2,098	571	260	92	63	50	6	1	20,077

Nine plumbers' licenses were issued during the quarter, making the total number one hundred and twenty-six, all of which expire December 31, 1904.

Seven hundred and ninety-eight permits to do plumbing work were issued during the quarter.

Two hundred and sixty-six applications for water were made during the quarter, making the total number twenty-six thousand three hundred and eighty-one.

The number of new service stops opened during the quarter was two hundred and one.

The total number of service stops opened to June 30, 1904, inclusive, was twenty-five thousand six hundred and sixty-six. The number in actual use June 30, 1904, was twenty-three thousand six hundred and forty-four.

The amount of bills approved on account of water works from April 1, to June 30, 1904, inclusive, was :

For maintenance, \$37,809 73

Classified as follows:

PETTACONSET PUMPING STATION.

Coal and wood.....	\$3,921 48	
Sundries.....	783 53	
Engineers.....	634 53	
Firemen.....	521 30	
Superintendence.....	373 75	
Care of grounds.....	267 01	
Allis Chalmers high-duty engine, to furnish and erect.....	150 00	
Labor on fuel.....	144 73	
Repairs on boilers.....	79 97	
Barn expenses.....	59 41	
Oil, waste and packing.....	33 88	
Corliss pumping engine and house.....	25 19	
Worthington high-duty engine.....	15 93	
Cornish engine house.....	5 46	
Lights.....	2 90	
Real estate.....	2 88	
		\$7,021 16

SOCKANOSSET RESERVOIR.

Sundries.....	\$253 39	
Watchman.....	182 00	
		435 39

HOPE PUMPING STATION.

Coal and wood.....	\$438 65	
Firemen.....	403 90	
Engineers.....	299 00	
Repairs on boilers.....	224 85	
Sundries.....	48 11	
Lights.....	45 20	
Oil, waste and packing.....	12 63	
Holly pumping engine.....	4 43	
		1,476 79

HOPE RESERVOIR.

Sundries.....	\$431 93	
Watchman.....	204 75	
		636 68

FRUIT HILL RESERVOIR.

Sundries.....	\$917 16	
Watchman.....	204 75	
		1,121 91

Amount carried forward..... \$10,682 72

REPORT OF THE DEPARTMENT OF PUBLIC WORKS. 9

Amount brought forward..... \$10,692 72

METER DEPARTMENT.

Water meters.....	\$3,580 11	
Setting and repairing meters.....	1,844 16	
		5,424 27

PIPE LINE AND SERVICE STOPS.

Repairs.....	\$3,616 65	
Inspection of pipe line and services.....	953 67	
Superintendence — salaries.....	849 25	
		5,419 57

PIPE YARD.

Laying water pipe.....	\$4,286 43	
Special castings.....	3,381 58	
Fire hydrants, boxes and covers.....	2,230 03	
Laying service pipe.....	1,439 28	
Stop valves.....	467 00	
Taps and stops.....	246 56	
Service pipe.....	213 30	
Tools	185 79	
Labor on and carting pipe.....	138 15	
Pipe yard, office expenses.....	10 57	
Repairs on pipe yard buildings.....	3 98	
Cast iron water pipe.	2 20	
		12,604 87

MISCELLANEOUS.

Clerks' and inspectors' salaries	\$1,544 40	
Barn expenses.	650 27	
Prevention of defilement of the Pawtuxet.....	549 99	
Horses, wagons, harnesses, etc.....	305 25	
Telephone lines.....	245 36	
Inspection of water pipe with reference to electro- lysis.....	182 13	
Car fares.	65 00	
Sundries.....	48 35	
Thawing out water pipes.....	46 50	
Public drinking fountains and troughs.....	31 05	
		3,638 30
		\$37,809 73

For construction, \$18,007 85

Charged as follows :

Installation of sand filtration plant at Pettaconset, \$18,007 85.

The total expenditure to June 30,
1904, inclusive, was \$9,711,212 66

The *net* expenditure for maintenance from April 1 to
June 30, 1904, inclusive, was..... \$29,741 36

The *net* expenditure for maintenance to June 30, 1904,
inclusive, was..... \$2,071,058 78

The *net* expenditure for construction from July 1, 1902, to
June 30, 1904, inclusive, was..... \$124,665 55

The value of the water works system,
January 1, 1904, as estimated by the city
engineer, was as follows :

Pettaconset pumping station.....	\$340,694 00
Hope pumping station	126,530 12
Sockanosset, Hope and Fruit Hill reservoirs.....	706,531 26
Main lines and distribution pipes.....	2,703,862 95
Real estate in Pawtuxet and Lincoln	15,975 00
Tools and supplies.....	44,939 96
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	\$3,938,533 29

Bills deposited with the city treasurer
for collection from April 1 to June 30,
1904, inclusive, amounted to \$88,238 31

As follows :

Water.....	\$79,001 66
Water meters.....	3,585 25
Setting and repairing meters.....	3,346 96
Labor and material, laying services, etc.,	1,907 06
Repairs on pipe line	165 67
Rent of real estate	96 75
Penalties.....	50 00
Old rubber.....	25 30
Permanently closing service stops	15 00
Blue prints of water distribution.....	4 00
Freight on turbine generator, from Boston.....	40 66
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	\$88,238 31

During the quarter, coupons from bills
collected have been returned by the city
treasurer and receipted for to the amount of \$92,495 75

As follows:

Water.....	\$84,336 72	
Water meters.....	3,580 00	
Labor and material, laying services, etc.....	2,153 95	
Setting and repairing meters.....	2,019 95	
Repairs on pipe line.....	173 42	
Rent of real estate.....	96 75	
Penalties.....	50 00	
Old rubber.....	25 30	
Permanently closing service stops.....	15 00	
Blue prints of water distribution.....	4 00	
Freight on turbine generator from Boston.....	40 66	
		\$92,495 75

SEWERS.

During the quarter ending June 30, 1904, three hundred and sixty-four permits were issued to drain-layers — one hundred and ninety-one for new work and one hundred and seventy-three for extensions and repairs of drains.

Fifteen drain-layers' licenses were issued during the quarter, making the total number one hundred and forty-two, all of which expire December 31, 1904.

During the quarter, assessments for the cost of constructing sewers were certified to the city treasurer as follows:

Wallace street, from near Webster avenue to Priscilla.....	\$990 43
Jewett street, from a point about 510 feet east of Valley to Valley.....	1,628 65
North Main street, east side, from Stenton avenue to Third street.....	1,631 64
Weymouth street and Lloyd avenue.....	3,837 27
Hilton street and California avenue.....	3,853 75
Tuxedo and Regent avenues.....	3,115 20
Wayland, Cole and University avenues.....	5,558 20
Branch avenue, from near Langdon street to near Moshassuck river.....	14,047 03
Branch avenue, from near Langdon street to Veazie.....	12,860 20
Algonquin street and Reservoir avenue.....	1,261 58
Amount carried forward.....	\$48,783 95

Amount brought forward	\$48,783 95
Branch avenue, from Douglas to Veazie street.....	7,350 73
Silver Spring street and Northup avenue.....	6,318 48
India and South Main streets, Section 29.....	2,041 82
Cemetery street, from North Main to Frost.....	2,723 17
Atwells avenue, Pine and Broad streets.....	5,036 76
Charles street, from near Amboy to Branch avenue.....	7,703 43
Hamilton, Irving and Melrose streets.....	270 00
Longfellow street, Section 7.....	315 00
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	\$80,543 24

June 8d, the proposal of the Providence Coal Company to furnish and deliver at Ernest street station during June, 100 tons of New River or Pocahontas coal at \$3.35 per net ton, was accepted.

June 7th, the following proposals for furnishing the anthracite coal required to July 1, 1905, were accepted, viz.:

John R. White & Son, \$5.75 per net ton, for egg size, delivered at sewage precipitation tanks.

Eastern Coal Company, \$5.15 per net ton, for egg size, delivered at city yard.

June 30th, the proposal of the Eastern Coal Company to furnish and deliver at Ernest street station during July, 100 tons of New River coal at \$3.33 per net ton, was accepted.

June 21st, contracts for the construction of the following sewers were awarded and subsequently executed, namely:

[The amounts given below are what are estimated will be paid the contractors for labor, and do not include the cost of inspection and materials or rock excavation.]

TO FREDERICK E. SHAW.

No. of resolution. Date of approval.

201. June 7, 1904, *Barre street, from Grove to about 1,300 feet northerly; also westerly through right of way across tracks of N. Y. N. H. and H. R. R. Co. to Harris avenue, . . .* \$1,934 70

No. of resolution. Date of approval.

202.	June 7, 1904,	<i>Veazie street, from Douglas avenue to Branch,</i>	\$2,147 30
203.	" " "	<i>Tanner, Laban and Conanicut streets,</i>	747 20
219.	June 17, 1904,	<i>Exchange place, from Exchange street to the river,</i>	2,548 60

During the quarter, the construction of the following sewers was completed, namely:

No. of resolution. Date of approval.

Date of completion.

229.	June 5, 1903,	<i>Reservoir avenue, west side, from Crescent street to Algonquin.</i>	May 27, 1904.
230.	" " "	<i>West Park and Bath streets.</i>	May 6, 1904.
52.	Feb. 2, 1904,	<i>Rosedale street, from Messer to Ellery,</i>	June 7, 1904.
54.	" " "	<i>Chalkstone avenue, from Lisbon street to River avenue,</i>	April 20, 1904.
55.	" " "	<i>Algonquin street, from Crescent to Holmes,</i>	May 28, 1904.
57.	" " "	<i>Washington avenue, from Virginia to Eddy street,</i>	May 14, 1904.
59.	" " "	<i>Fairview and Pemberton streets,</i>	Apr. 26, 1904.

Work upon the following sewers was in progress at the close of the quarter, namely:

No. of resolution. Date of approval.

320.	Sept. 18, 1903,	<i>Vandewater street, from Douglas avenue to Branch.</i>
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No. of resolution. Date of approval.

322. Sept. 18, 1903, *Dudley street, from Pearl and Plain to the head of the city dock.*
58. Feb. 2, 1904, *Thayer, Manning and Brook streets, (storm sewer).*
56. " " " *Ninth and Pettis streets.*
60. " " " *Alverson, Eastwood, Laurel Hill and Hartford avenues.*
203. June 7, 1904, *Tanner, Laban, and Conanicut streets.*

Work upon the following sewers, completing the work ordered by the city council, had not commenced June 30, 1904, namely:

No. of resolution. Date of approval.

319. Sept. 18, 1903, *Elton street, from a low point 100 feet east of Taber avenue to Elmgrove.*
53. Feb. 2, 1904, *Admiral street, from Hillwood to end of present sewer in Admiral.*
201. June 7, 1904, *Barre street, from Grove to about 1,300 feet northerly; also westerly through right of way across tracks of N. Y. N. H. and H. R. R. Co. to Harris avenue.*
202. " " " *Veazie street, from near Douglas avenue to Branch.*
219. June 17, 1904, *Exchange place, from Exchange street to the river.*

The amount of bills approved on account of sewers from April 1 to June 30, 1904, inclusive, was as follows:

FOR CONSTRUCTION.

Regular appropriation.....	\$51,045 88	
Improved sewerage appropriation.	295 05	
		<hr/> \$51,340 93

Charged as follows :

Material.....	\$18,647 13
Contract reservations.....	1,739 34
Sundries.....	909 78
Additional catch-basins.....	429 10
Testing cement.....	267 82
Tools.....	8 88
Sewer in Algonquin street, from Crescent to Holmes	789 32
Sewer in Alverson, Eastwood, Laurel Hill and	
Hartford avenues.....	1,864 63
Sewer in Chalkstone avenue from Lisbon street to	
River avenue.....	814 41
Sewer in Dudley street, from junction of Pearl and	
Plain to Eddy street, and across land of the	
city from Eddy street to the head of the city	
dock.....	12,886 98
Sewer in Fairview and Pemberton streets.....	998 16
Sewer in Ninth and Pettis streets.....	220 61
Sewer in Reservoir avenue, west side, from Crescent	
street to Algonquin.....	859 57
Sewer in Rosedale street, from Messer to Ellery...	852 23
Sewer in Tanner, Laban and Conanicut streets....	28 53
Sewer in Thayer, Manning and Brook streets.....	1,552 83
Sewer in Vandewater street, from Douglas avenue	
to Branch.....	3,989 91
Sewer in Washington avenue, from Virginia to	
Eddy street.....	1,377 72
Sewer in West Park and Bath streets.....	3,103 96
	<u>\$51,340 93</u>

For maintenance, \$28,271 23

Classified as follows :

Cleaning basins and sewers.....	\$6,825 53
Repairing basins and sewers.....	3,869 52
Cleaning and repairing old drains.....:	1,215 81
Inspection of connections.....	691 08
Tools.....	490 04
Salary, superintendent.....	442 00
Barn expenses.....	432 47
Sundries.....	199 67
Horses, wagons, harnesses, etc.....	129 89
Filling cisterns, etc.....	53 89
Cleaning private connections.....	42 00
Telephone lines.....	35 93
Car fares.....	10 00
Office expenses.....	7 32
Repairs on buildings,—sewer maintenance, yard..	4 95

Amount carried forward..... \$14,450 10

Amount brought forward..... \$14,450 10

ERNEST STREET STATION.

Coal and wood	\$1,521 52
Engineers	809 48
Cleaning screens	629 98
Firemen	420 40
Cleaning and repairing pumps	391 98
Care of grounds	123 58
Supplies	73 47
Repairs on engines	39 74
Lights	25 54
Care of buildings	19 45
Repairs on buildings	2 80
Repairs on boilers	2 66

SEWAGE PRECIPITATION TANKS.

Chemicals	4,695 05
Labor in sludge disposal	2,543 52
Labor on sewage precipitation	1,535 64
Electrical power	469 50
Miscellaneous supplies	402 19
Fuel	57 94
Repairs on machinery	26 01
Lights	17 76
Repairs on buildings	12 92

\$28,271 23

The *net* expenditure for construction of sewers to June 30, 1904, inclusive, was..... \$7,567,541 39

The *net* expenditure for maintenance of sewers to June 30, 1904, inclusive, was..... \$1,095,816 16

Bills deposited with the city treasurer
for collection from April 1 to June 30,
1904, inclusive, amounted to . . . \$460 87

As follows :

Sewer material	\$207 33
Filling cisterns, etc	99 60
Cleaning private connections	53 25
Miscellaneous work	53 16
Old rubber	45 13
Testing cement	2 40

\$460 87

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of \$430 40

As follows:

Sewer material.....	\$200 38
Filling cisterns, etc.....	99 60
Cleaning private connections.....	66 00
Old rubber.....	45 13
Miscellaneous work.....	16 69
Testing cement.....	2 40
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	\$430 40

HIGHWAYS.

Five permits to open streets were issued during the quarter.

A statement has been prepared of the cost of curbstones set, ascertained by the commissioner and certified to the board of aldermen for approval, as follows:

Morris avenue, from Cypress street to Olney..... \$2,099 21

May 21st, statements of the cost of concreting sidewalks in sundry streets, with ten per centum added to cover the cost of assessing and collecting, were certified to the assessors of taxes, aggregating the sum of \$1,780.95.

June 3d, the proposal of the Providence Coal Company to furnish the New River or Pocahontas coal required during June, 1904, was accepted at the following prices, viz.:

Lump.....	\$3.60 per net ton, at the yard.
Run of mine.....	3.10 " " " " " "

June 7th, the proposal of the Eastern Coal Company to furnish and deliver all the egg and stove size anthracite coal required to July 1, 1905, at \$5.15 per net ton, was accepted.

June 30th, the proposal of the Eastern Coal Company to furnish, at their yard, all the New River coal required during July, 1904, was accepted at the following prices, viz.:

Lump.....	\$3.53 per net ton.
Run of mine.....	3.03 " " "

During the quarter, the following work was completed:

SIDEWALKS CURBED AND GUTTERS PAVED.

Date of order.

- Nov. 20, 1902, *Egan street, from Manton avenue to the bridge.*
 June 18, 1903, *Wayland avenue, from Lloyd to Irving.*
 " " " *Cole avenue, from Lloyd to Irving.*
 Oct. 15, " *Morris avenue, from Cypress street to Olney.*
 Dec. 17, " *Hilton street, from Willard avenue to Bogman street.*
 April 21, 1904, *Troy street, from Westminster to Oak.*
 " " " *Seventh street, from Summit avenue to North Main street.*

TO GRADE AND PUT IN GOOD CONDITION.

Date of order.

- June 18, 1903, *Hastings and Ledge streets.*

The following work was in progress June 30, 1904, namely:

SIDEWALKS CURBED AND GUTTERS PAVED.

Date of order.

- June 18, 1903, *Bath street, from Orms to Calverley.*
 " " " *University avenue, from Elmgrove to Slater.*
 April 21, 1904, *Algonquin street, from Crescent to Reservoir avenue.*

The following work, ordered by the board of aldermen and city council, had not commenced June 30, 1904, namely:

SIDEWALKS CURBED AND GUTTERS PAVED.

Date of order.

Jan. 21, 1904, *Elton street, from Taber avenue to Elmgrove.*

May 19, 1904, *Rosedale street, from Messer to Ellery.*

" " " *Thorne street, from Roanoke to Belmont avenue.*

" " " *Fairview street, from Carleton to Pemberton.*

June 16, 1904, *Barre street, from Ridge to Bell.*

" " " *Bell street, from Barre to Eden.*

ABOLISHMENT OF GRADE CROSSINGS.

Date of order.

June 7, 1904, *Building retaining walls, etc., on Barre street.*

Bills approved on account of highways from April 1 to June 30, 1904, inclusive, amounted to: \$77,910 99

Classified as follows:

Cleaning streets.....	\$20,209 68
Repairs on unpaved streets	10,738 11
Crushed stone—material and labor.....	9,236 03
Repairs on paved streets.....	5,792 69
Stone—paving and crosswalk.....	5,318 08
Barn expenses	2,657 20
Blacksmith and wheelwright shop.....	2,624 19
Tools, implements, etc.....	1,205 62
Repairs on stone crushers.....	853 91
Horses, wagons, harnesses, etc.....	738 30
Watering streets.....	722 10
Labor on material.....	663 69
Steam rollers—repairs and supplies.....	533 40
Superintendent's salary	442 00
Building driveways, etc.....	411 24
Sundries	221 03
Watchman at city yard	156 00
Fencing streets—material and labor	81 88
Repairs on buildings, highway yard.....	42 60
Office expenses, city yard.....	25 80
Car fares.....	25 00
Telephone lines.....	5 35
Amount carried forward.....	<u>\$62,703 90</u>

Amount brought forward..... \$62,793 90

NEW WORK — BUILDING AND REBUILD- ING STREETS, ETC.

SIDEWALKS CURBED AND GUTTERS PAVED.

<i>Algonquin street, from Crescent to Reservoir avenue</i>	\$394 55
<i>Bath street, from Orms to Calverley.....</i>	1,325 52
<i>Cole avenue, from Lloyd to Irving.....</i>	1,270 83
<i>Hilton street, from Willard avenue to Bogman street</i>	1,249 57
<i>Morris avenue, from Cypress street to Olney.....</i>	1,918 85
<i>Seventh street, from Summit avenue to North Main street.</i>	2,781 86
<i>Troy street, from Westminster to Oak.....</i>	1,926 09
<i>University avenue, from Elmgrove to Slater.....</i>	1,525 26
<i>Wayland avenue, from Lloyd to Irving.</i>	1,570 22
	<hr/>
	13,962 75

TO GRADE AND PUT IN GOOD CONDITION.

<i>Hastings and Ledge streets.....</i>	1,244 34
	<hr/>
	\$77,910 99

Bills approved for account of building retaining walls, etc., on Barre street from April 1 to June 30, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of . . . \$76 19

Bills deposited with the city treasurer for collection from April 1 to June 30, 1904, inclusive, amounted to . . . \$3,352 83

As follows:

Labor and material.....	\$1,861 10
Blacksmith and harness work done for other departments.....	484 31
Building driveways, etc.....	446 87
Street sweepings.....	256 35
Boarding horses for other departments.....	202 55
Manure from barn.....	69 00
Discharging cargoes at city wharf.....	27 75
Empty oil barrels.....	4 90
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	\$3,352 83

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of \$2,383 46

As follows :

Labor and material.....	\$934 68
Blacksmith and harness work done for other departments.....	529 96
Street sweepings.....	312 65
Building driveways, etc.....	282 47
Boarding horses for other departments.....	202 55
Manure from barn.....	69 00
Discharging cargoes at city wharf.....	47 25
Empty oil barrels.....	4 90
	<hr/>
	\$2,383 46

SIDEWALKS AND CURBING.

Bills approved on account of sidewalks and curbing from April 1 to June 30, 1904, inclusive, amounted to . . . : \$8,591 52

Charged as follows :

Granite curbing.....	\$5,246 77
Concreting sidewalks.....	2,162 64
Repairing sidewalks and gutters.....	1,182 11
	<hr/>
	\$8,591 52

Curbing bills deposited with the city treasurer for collection from April 1 to June 30, 1904, inclusive, amounted to . \$13,139 28

During the quarter, coupons from curbing bills have been returned by the city treasurer and receipted for to the amount of . . \$3,960 47

CITY ENGINEER.

Bills approved on account of the city engineer's department from April 1 to June 30, 1904, inclusive, amounted to . \$12,084 61

Charged as follows:

Salary — city engineer.....	\$1,125 00
Salaries of assistants.....	9,733 72
Salaries of clerks.....	789 75
Car fares.....	202 00
Supplies — drawing material, etc.....	196 69
Telephone lines.....	23 30
Carriage hire.....	9 00
Sundries.....	5 15
	<hr/>
	\$12,084 61

Bills deposited with the city treasurer for collection from April 1 to June 30, 1904, inclusive, for one level and tripod sold, amounted to \$20 00

During the quarter, coupons from bills collected for one level and tripod sold, have been returned by the city treasurer and receipted for to the amount of \$20 00

BRIDGES.

June 3d, the proposal of the Providence Coal Company to furnish and deliver all the New River or Pocahontas lump coal required during June, 1904, at \$4.00 per net ton, was accepted.

June 7th, the proposal of John R. White & Son to furnish and deliver all the egg size anthracite coal required to July 1, 1905, at \$5.75 per net ton, was accepted.

June 30th, the proposal of the Providence Coal Company to furnish and deliver all the New River or Pocahontas lump coal required during July, 1904, at \$4.05 per net ton, was accepted.

During the quarter the following work was completed, namely:

TO BUILD BRIDGE AND APPROACHES.

No. of resolution. Date of approval.

220. June 20, 1902, *Over Woonasquatucket river at Egan and Chatlett streets.*

The following work was in progress at the end of the quarter, namely:

No. of resolution. Date of approval.

411. Dec. 19, 1902, *Exchange bridge on its northerly side; bridge over the river between Exchange and Burnside bridges; river walls between Burnside and Exchange bridges.*

The following work, ordered by the city council, had not commenced June 30, 1904:

No. of resolution. Date of approval.

232. June 21, 1904, *Build culvert, across Allens avenue at outlet to Burgess cove, and the approaches thereto.*

Bills approved on account of bridges from
April 1 to June 30, 1904, inclusive,
amounted to

\$4,993 19

Charged as follows:

Acorn street bridge.....	\$1 00
Atwells avenue bridge.....	33 64
Barn expenses.....	108 27
Branch avenue bridge.....	16 00
Burnside bridge.....	5 36
Cemetery street bridge.....	24 82
Charles street railroad bridge.....	33 98
Crawford street bridge.....	55 62
Delaine street bridge.....	13 70
Exchange bridge.....	20 49
Francis street bridge.....	118 59
Gaspee street bridge.....	9 79
Geneva bridge.....	105 30
Horses, wagons, harnesses, etc.....	12 91
Lumber, hardware, etc.....	331 68
Manton avenue bridge.....	21 76
Merino bridge.....	160 87
Mill street bridge.....	19 62
Nash lane bridge.....	19 24
Park street bridge.....	6 44
Point street bridge.....	709 53
Promenade street bridge.....	25 04
Randall street bridge.....	18 44
Red bridge.....	264 35
Rent of keeper's house — Washington bridge.....	36 00
Salaries — Point street bridge.....	978 25
Salaries — Washington bridge.....	513 50
Salaries — Red bridge.....	514 57
Smith street bridge.....	10 24
Smithfield avenue bridge.....	7 90
Stevens street bridge.....	6 01
Sundries.....	155 15
Telephone lines.....	2 68
Tools.....	77 11
Valley street bridge — north span.....	83 84
Valley street bridge — south span.....	62 70
Veazie street bridge.....	46 10
Wanakuck bridge.....	11 42
Washington bridge.....	108 68
Washington row bridge.....	18 28
West river street bridge.....	41 45
Weybosset bridge.....	178 59
Whelden street bridge.....	4 28

\$4,993 19

Bills deposited with the city treasurer for collection from April 1 to June 30, 1904, inclusive, for old lumber sold, amounted to \$2 25

During the quarter, coupons from bills collected for old lumber sold, have been returned by the city treasurer and receipted for to the amount of \$2 25

Bills approved for account of building the Merino bridge, from April 1 to June 30, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of \$5,330 29

Bills approved for account of building the river walls between the Burnside and Exchange bridges, from April 1 to June 30, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of \$14,101 56

PUBLIC LIGHTS.

Bills approved on account of the public lights from April 1 to June 30, 1904, inclusive, amounted to \$69,756 87

Charged as follows :

Arc lights.....	\$51,077 06
Incandescent lights.....	12,097 83
Welsbach lights.....	6,120 80
Salaries.....	395 00
Gas for street lights.....	50 80
Horses, wagons, harnesses, etc.....	12 38
Setting and removing gas posts.....	3 00
	<hr/>
	\$69,756 87

Bills deposited with the city treasurer for collection from April 1 to June 30, 1904, inclusive, amounted to \$17 00

As follows :

Lamp posts, lanterns and frames.....	\$15 00
Setting and removing gas posts.....	2 00
	<hr/>
	\$17 00

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of \$22 00

As follows :

Lamp posts, lanterns and frames.....	\$20 00
Setting and removing gas posts.....	2 00
	<hr/>
	\$22 00

PUBLIC WORKS OFFICE.

Bills approved on account of the public works office from April 1 to June 30, 1904, inclusive, amounted to \$5,077 53

Charged as follows :

Salaries of commissioner and secretary.....	\$1,850 00
Salaries of office assistants.....	3,033 66
Office supplies.....	157 90
Telephone lines.....	35 97
	<hr/>
	\$5,077 53

CONTINGENCIES.

Bills approved for the inspection of electric wires from April 1 to June 30, 1904, inclusive, have been paid from the appropriation for contingencies to the amount of \$5 00

WALTER F. SLADE,
Commissioner.

1904.]

CITY DOCUMENT.

[No. 18.]

FORTY-NINTH ANNUAL REPORT

UPON THE

Births, Marriages, and Deaths

IN THE

CITY OF PROVIDENCE

FOR THE YEAR

1903.

By CHARLES V. CHAPIN, M. D.

CITY REGISTRAR.



The Providence Press:
SNOW & FARNHAM, CITY PRINTERS,
63 Washington Street,
1904.

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REPORT.

CITY REGISTRAR'S OFFICE.

May 11, 1904.

TO THE HONORABLE THE CITY COUNCIL:

In accordance with a joint resolution approved February, 1, 1898, the annual report of the City Registrar is herewith presented in print:

POPULATION.

In order to get at the meaning of vital statistics it is necessary to consider the data of births, marriages and deaths in connection with the living population. The ratio of births, marriages and deaths to the number living is one of the most common and useful modes of expressing this relation. It is usually desirable and often necessary that various groups of births, marriages and deaths should be considered in relation to similar divisions of the living, and for this purpose the population must be distributed according to sex, age nativity, parentage, etc. In the registration reports of this city it has been customary to a greater or lesser extent to make use of such ratios as are indicated above, in considering the births, marriages and deaths for each year. For census years of course, the census data are made use of as they are available. For intercensal

years the population is estimated to increase at about the same ratio as in the previous intercensal period. The exact arithmetical increase is not strictly adhered to, but a round number approximately to it is selected. A review of these estimates in the light of subsequent censuses shows that they have been sufficiently accurate (with one exception) not to require revision. This estimated population for each year is distributed according to sex and parentage, according to the ratios of the next preceding census. These annual estimates are the ones used in the General Summary in Table XXII in the last part of this report.

For the purpose of studying changes in birth, marriage and death rates, it is desirable that the data employed be grouped in five-year periods. It thus becomes necessary to estimate the aggregate population for these periods, and if as is the case in many tables in this report, sex and parentage are noted this aggregate population must be distributed according to sex and parentage. Ten years ago I made such an estimate of population which has since that time been used as the basis of the ratios in these reports. I have since found that some of the figures from the Federal censuses, which were used were not comparable with our data, and I have also concluded that some of my own methods of estimation were faulty. I have therefore made new estimates which are given below, and which are used as the basis of all ratios in this report. It is to be noted that Dr. Edwin M. Snow, the first Registrar in Providence, made the nativity of the father determine the parentage, and that this practice has been adhered to.

	American.	Foreign.	Total.	Males.	Females.
1855.....	28,165 ¹	19,620 ¹	47,785	22,777 ²	25,008 ²
1860.....	29,178 ³	21,488 ³	50,666	23,906 ⁴	26,760 ⁴
1865.....	30,702 ⁵	23,893 ⁵	54,595	25,219 ⁶	29,376 ⁶
1870.....	38,758 ⁷	30,146 ⁷	68,904	32,535 ⁸	36,369 ⁸
1874.....	48,351 ⁹	51,257 ⁹	99,608	48,074 ¹⁰	51,534 ¹⁰
Ward X, 1874.	2,983 ⁹	12,137 ⁸	15,120	7,487 ¹⁰	7,633 ¹⁰
1875.....	47,318 ¹¹	53,359 ¹¹	100,675	48,701 ¹²	51,974 ¹²
1880.....	47,259 ¹³	57,598 ¹³	104,857	49,787 ¹⁴	55,070 ¹⁴
1885.....	51,282 ¹⁵	66,788 ¹⁵	118,070	55,931 ¹⁶	62,139 ¹⁶
1890.....	56,323 ¹⁷	75,823 ¹⁷	132,146	63,569 ¹⁸	68,577 ¹⁸
1895.....	56,455 ¹⁹	89,017 ¹⁹	145,472	70,038 ²⁰	75,434 ²⁰
1900.....	65,881 ²¹	109,716 ²¹	175,597	85,072 ²²	90,525 ²²

¹ Found by distributing 456 of unknown parentage according to ratio of known. Census of Providence, 1855, page 18.

² Census of Providence, 1855, page 7.

³ Not given in Federal Census. Ratios of American and Foreign in censuses of 1855 and 1865 averaged, and population of 1860 distributed according to this average.

⁴ Letter from Superintendent of Census to Dr. Snow, City Registrar's Report, 1860, page 50.

⁵ Census of Rhode Island, 1865, page 25.

⁶ Census of Rhode Island, of 1865, page 28.

⁷ The census of 1870 did not give sex and parentage and the parentage figures are Dr. Snow's estimates given on page 23, Registration Report, 1870.

⁸ Census of Providence, 1874, page 7. Probably from Superintendent of the Ninth United States Census.

⁹ Census of Providence, 1874, page 9.

¹⁰ Census of Providence, 1874, page 7.

¹¹ Census of Rhode Island, 1875, pages LXV and LXVI.

¹² Census of Rhode Island, 1875, page 3.

¹³ Ratios of American and Foreign in census of 1875 and 1885 averaged and population of 1880 distributed according to this average.

¹⁴ Sex obtained from United States Census, presumably by letter from Superintendent. See Registrar's Report 1880, page 30.

¹⁵ Census of Rhode Island, 1885, page 239. Unknown parentage distributed according to ratio of known.

¹⁶ Census of Rhode Island, 1885, page 97.

¹⁷ United States Census, 1890, Vol. Population, Part I, pages 704 and 706. To those of native white parentage were added all with native fathers, page 706. For the colored the distribution of the census was followed.

¹⁸ United States Census, 1890, Vol. Population, Part I, page 480.

¹⁹ Census of Rhode Island, 1895, page 422.

²⁰ Census of Rhode Island, 1895, page 11.

²¹ United States Census, 1900, Vol. 1, pages 868 and 872. For native parentage add to aggregate native, page 868, the 7,122 of foreign with native fathers, page 872.

²² United States Census, 1900, Vol. I, page 641.

The total population and the males and females were given in the census of 1855, but the parentage of 456 was recorded as unknown. These have in the above been distributed in the same ratio as those of known parentage.

The aggregate population for 1856 to 1860 was obtained as follows: The increase between the censuses of 1855 and 1860 was divided by five and the quotient added to the population of 1855 to obtain that for 1856. This is not so accurate as it would be to estimate the increase according to geometrical ratio, but it appears to be near enough for the purpose. The population for 1856 is then added to that for 1860, the sum divided by two and multiplied by five to obtain the aggregate population for the five years, 1856 to 1860. The male and female population and the parentage groups are then treated in the same way. A similar procedure was followed for the other five year periods. But several modifications and expedients were necessary. Thus in the Federal Census of 1860, the population of Providence was not distributed according to sex and parentage. An average was therefore found in the ratios for these groups in the censuses of 1855 and 1865, and the total population as given in the census of 1860 was distributed according to these ratios.

In May, 1874, a portion of North Providence was added to the city and made Ward X. In estimating the population for the five years, 1871 to 1875, the following method was followed. A census was taken in May, 1874, and from the population of the city as obtained at that time, the population of the Tenth Ward was subtracted. The remainder was taken as the population in 1874, before the annexation and the aggregate population for the three years, 1871 to 1873, inclusive, was found in the same manner as that for the five year periods. As the annexation took place at the beginning of the second third of 1874, one-third of the population of the annexed district was subtracted from the census taken in May, and the remainder used as the popula-

tion for 1874. The population for 1875 was found by census, and the estimated population for the three years, 1871 to 1873, was added to the modified census figures of 1874 and to the census figures of 1875 to obtain the aggregate population for the five-year period, 1871 to 1875. The same procedure was followed in obtaining the figures for parentage and sex.

In 1880, the distribution according to parentage, was not obtainable from the census, but was estimated in the same way as for 1860.

The total for the whole period covered by this report is found by adding the five year periods and the single years since 1900.

The following are the figures thus found and are those used in calculating the percentages throughout this report:

ESTIMATED POPULATION.

	Parentage		Total	Sex	
	American	Foreign		Males	Females
1855.....	28,165.....	19,620.....	47,785.....	22,777.....	25,008
1856-1860.....	143,865.....	103,702.....	247,567.....	117,272.....	130,295
1861-1865.....	150,462.....	114,655.....	265,117.....	123,469.....	141,648
1866-1870.....	177,678.....	138,224.....	315,902.....	148,042.....	167,860
1871-1875.....	223,341.....	207,834.....	431,175.....	206,981.....	224,194
1876-1880.....	238,410.....	279,510.....	515,920.....	246,763.....	269,157
1881-1885.....	248,365.....	315,560.....	563,925.....	267,368.....	296,557
1886-1890.....	271,532.....	361,045.....	632,577.....	302,567.....	330,010
1891-1895.....	282,010.....	418,697.....	700,707.....	337,252.....	363,455
1896-1900.....	310,553.....	507,182.....	817,735.....	395,293.....	422,442
1901.....	66,786.....	111,214.....	178,000.....	86,235.....	91,765
1902.....	67,911.....	113,089.....	181,000.....	87,689.....	93,311
1903.....	69,412.....	115,588.....	185,000.....	89,627.....	95,373
1856-1903					
48 years.....	2,248,325.....	2,786,300.....	5,034,625.....	2,408,558.....	2,626,067

Since writing the above the Federal Census Bureau has issued a circular in which it is stated that intercensal populations are to be calculated by assuming an arithmetical increase.

DEATHS.

The number of deaths reported in Providence for the year 1903, was 3,895, which was 501 more than in 1902.

The population of Providence for 1903, was estimated at 185,000, and the following table shows the mortality in the different classes of this population; each class being considered to bear the same proportion to the whole population as in the census of 1900¹.

	Population, 1903.	Deaths, 1903.	To population, one death in	Deaths in each 1,000 of population.
Total population.....	185,000.....	3,895.....	47.49.....	21.05.....
Males.....	89,626.....	2,028.....	44.19.....	22.62.....
Females.....	95,374.....	1,867.....	51.08.....	19.57.....
Whites.....	179,638.....	3,720.....	48.28.....	20.71.....
Colored.....	5,362*.....	175†.....	30.64.....	32.63.....
Born in United States.....	125,153.....	2,719.....	46.03.....	21.72.....
Born in foreign countries..	59,847.....	1,176.....	50.89.....	19.65.....
American parentage.....	69,412.....	1,388.....	50.00.....	19.59.....
Foreign parentage.....	115,588.....	2,507.....	46.10.....	21.68.....

* Including Indians and Orientals. † Including four Chinese and one Indian.

The rate of mortality in 1903, was 2.30 more than in the preceding year. During the forty-nine years from 1855 to 1903, inclusive, there were 100,621 deaths in Providence, giving an average annual death-rate of one to each 50.33 of the population, or 19.86 deaths in each 1,000 living. The death-rate in 1903, was therefore, 1.19 more than the average for the whole period of forty-nine years.

¹ The Federal Census includes in "foreign parentage" all persons having either or both parents of foreign birth. In Providence the nativity of the father alone has always determined the parentage. The figures in the Federal Census of 1900 are so tabulated that it is possible to calculate the parentage according to the classification employed in Providence, and this has been done.

TABLE I. (Previous to 1898, TABLE XII.) DEATHS, 1903.

1903.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Whole number of deaths..	374	357	354	323	298	304	382	339	301	289	255	319	3,895
Sex:													
Males	180	206	205	170	182	152	187	187	167	158	112	152	2,028
Females.....	194	151	149	153	146	182	195	152	134	131	143	167	1,867
Condition:													
Married.....	122	111	105	98	87	71	83	83	91	100	88	104	1,153
Single.....	185	188	189	172	162	186	238	194	157	141	119	134	2,065
Widows.....	41	29	39	31	29	31	30	37	34	24	38	51	414
Widowers.....	22	25	18	18	15	13	19	21	17	22	6	26	222
Divorced.....	2	3	2	3	4	2	1	2	1	1	4	3	28
Unknown.....	2	1	1	1	1	1	1	3	.....	1	.....	1	13
Color:													
White.....	359	340	333	310	287	290	362	327	288	275	244	305	3,720
Colored.....	14	17	21	12	11	14	19	11	13	14	11	13	170
Chinese.....	1	.....	.....	1	.....	.....	.....	1	.....	.....	.....	1	4
Indian.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Nativity:													
United States.....	255	251	248	229	206	225	286	236	206	210	168	199	2,719
Ireland.....	63	62	47	43	49	31	44	48	41	34	41	66	569
England, Scot'nd, Wales.....	24	18	20	20	14	17	15	19	20	18	19	15	219
Germany.....	5	2	8	4	4	3	5	3	3	.....	1	5	43
British America.....	6	3	7	3	6	4	4	5	10	7	2	3	60
French Canada.....	1	8	4	2	1	6	.....	7	6	3	7	6	51
Portugal & Western Is'nds.....	4	1	3	3	.....	2	2	1	3	2	1	3	25
Sweden and Norway.....	2	4	3	2	1	4	2	4	.....	1	1	6	30
Russia and Poland.....	1	.....	3	4	3	1	2	1	3	2	3	5	28
Italy.....	6	6	8	9	10	7	17	11	9	8	9	8	108
Other countries.....	7	2	3	4	4	4	5	4	.....	4	3	3	43
Parentage:													
American.....	131	126	140	117	101	101	138	104	115	113	85	117	1,388
Irish.....	111	108	94	89	94	78	100	94	81	78	88	104	1,119
English, Scotch, Welch.....	37	40	38	32	24	32	27	36	32	26	27	20	371
German.....	9	6	11	5	5	4	9	9	6	2	5	11	82
British American.....	6	8	8	5	6	8	10	7	10	9	2	5	84
French Canadian.....	15	11	12	11	3	15	10	21	13	16	9	11	147
Portuguese.....	8	15	7	11	4	6	10	7	7	6	5	6	92
Swedish and Norwegian.....	6	8	6	5	7	12	5	7	3	3	5	15	82
Russian and Polish.....	6	5	7	8	6	3	10	9	7	9	6	7	83
Italian.....	33	27	24	30	41	34	55	37	23	20	18	22	364
Other foreign.....	12	3	7	10	7	11	8	8	4	7	5	1	83
Locality:													
Public Institutions.....	72	54	82	64	71	65	77	70	65	74	58	60	812
Totals.....	374	357	354	323	298	304	382	339	301	289	255	319	3,895

Season. The largest monthly total of deaths in 1903, was 382 in July; the smallest, 255, in November.

The following figures show the number of deaths in each quarter of each of the last five years; also the aggregate and average number of deaths in each quarter of the year, in the total for forty-nine years, from 1855 to 1903, inclusive:

	1903.	1902.	1901.	1900.	1899.	49 years. Aggregate.	1855-1903. Average
January-March.....	1,085....	875....	953....	1,076....	899.....	25,678.....	524
April-June.....	925....	778....	769....	973....	727....	23,283.....	475
July-September.....	1,022....	873....	938....	855....	779.....	27,685.....	565
October-December.....	863....	868....	784....	774....	757.....	23,975.....	489
Totals.....	3,895	3,394	3,444	3,678	3,162	100,621	2,053

The following shows the number and percentage of deaths in Providence in each quarter of the year, in the aggregate for thirty-one years, from 1855 to 1885, inclusive, for periods of five years, 1886 to 1900, inclusive, and for each year since 1900:

	January-March.		April-June.		July-Sept.		Oct.-Dec.	
	Deaths.	Perct.	Deaths.	Perct.	Deaths.	Perct.	Deaths.	Perct.
1855-1885.....	11,283....	24.17....	10,598....	22.70....	13,342....	28.58....	11,459....	24.55
1886-1890.....	3,424....	26.42....	2,917....	22.50....	3,577....	27.60....	3,044....	23.48
1891-1895.....	3,895....	26.46....	3,534....	24.01....	3,883....	26.38....	3,404....	23.13
1896-1900.....	4,163....	26.81....	3,762....	24.23....	4,050....	26.08....	3,553....	22.88
1901.....	953....	27.67....	769....	22.33....	938....	27.24....	784....	22.75
1902.....	875....	25.78....	778....	22.92....	873....	25.72....	868....	25.58
1903.....	1,085....	27.85....	925....	23.75....	1,022....	26.24....	863....	22.16

Sex and Parentage. The sex of the decedents, by parentage in Providence, is shown in the following table, in periods of five years each, from 1861 to 1900, inclusive, and for each year since 1900; also for the whole period of forty-three years:

	American Parentage.			Foreign Parentage.		
	Males.	Females.	Total.	Males	Females.	Total.
1861-1865.....	1,401.....	1,474.....	2,875	1,401.....	1,396.....	2,796
1866-1870.....	1,407.....	1,499.....	2,906	1,387.....	1,332.....	2,719
1871-1875.....	1,978.....	2,158.....	4,136	2,150.....	2,192.....	4,342
1876-1880.....	2,179.....	2,354.....	4,533	2,593.....	2,772.....	5,365
1881-1885.....	2,380.....	2,635.....	5,015	3,011.....	3,086.....	6,097
1886-1890.....	2,673.....	2,807.....	5,480	3,096.....	3,786.....	7,482
1891-1895.....	2,956.....	2,993.....	5,949	4,512 .. .	4,313.....	8,825
1896-1900.....	2,974.....	2,917.....	5,891	4,943.	4,694.....	9,637
1901.....	655.....	646.....	1,301	1,138.....	1,005.....	2,143
1902.....	627.....	655.....	1,282	1,090.....	1,022.....	2,112
1903.....	736.....	652.....	1,388	1,292.....	1,215.....	2,507
43 years.....	19,966	20,790	40,756	27,213	26,812	54,025

Color. The white decedents of 1903, were 3,720 in number, 1,241 of American, 2,479 of foreign parentage. There were 170 colored decedents, which was 10 more than in 1902; 24 of these were of foreign parentage. There were also four Chinese decedents and one of Indian descent.

Nativity and Parentage. The nativity and parentage of the decedents are given in Table I. The following figures show what difference there is between the two classes:

1903.	Nativity.	1903.	Parentage.
United States.....	2,719	American.....	1,388
Ireland.....	569	Irish.....	1,119
England and Scotland.....	219	English and Scotch.....	371
Germany.....	43	German.....	82
British America.....	60	British-American.....	84
" " (French).....	51	French-Canadian.....	147
Portugal and Western Islands.....	25	Portuguese.....	92
Russia.....	28	Russian.....	83
Sweden and Norway.....	30	Swedish and Norwegian.....	82
Italy.....	108	Italian.....	364
Other countries.....	43	Other Foreign.....	83
Totals.....	3,896		3,895

The 43 decedents born in other foreign countries than those named in the table were as follows: born in France, 7; in Armenia, 6; in Roumania, 5; in Austria and Denmark, 4 each; in Switzerland and China, 3 each; in Belgium, Finland and Syria, 2 each; and 1 each in the Isle of Jersey, Bohemia, Turkey, West Indies and South America.

The 83 decedents of "other foreign" parentage were as follows: Austrian, 17; Armenian, 16; Danish, French and Roumanian, 7 each; Swiss, Finnish, Syrian and Chinese, 4 each; Belgian and West Indian, 3 each; Turkish, 2; Hungarian, Isle of Jersey, Australian, St. Helena, and South American, 1 each.

Locality. The decedents in public institutions in each of the last five years have been as follows: It will be seen from the table that the term *Public Institutions*, for this purpose, includes not only hospitals and other public institutions, but also hotels, rivers, ponds, the streets, etc., where persons happen to die away from their usual residences:

	1903.	1902.	1901.	1900.	1899.
Rhode Island Hospital	375	347	340	311	247
Butler Hospital.....	23	13	6	24	16
Homœopathic Hospital.....	0	0	13	21	28
U. S. Marine Hospital.	4	7	0	0	2
St. Joseph's Hospital.....	151	126	117	131	99
Emergency Hospital, N. Y., N. H. & H. R. R.....	1	3	8	3	4
Dexter Asylum.....	20	23	24	23	18
Home for Aged Men.....	2	3	1	5	4
Home for Aged Women.....	6	5	3	5	6
Home for Aged Colored Women.....	0	1	0	2	0
Field's Point Hospital	0	6	2	0	0
St. Elizabeth Home.....	5	4	3	3	2
St. Maria Home.....	1	0	1	3	0
Children's Home	0	1	0	0	0
State Home and School.....	1	0	1	3	0
Shelter for Colored Children.....	1	0	0	0	2
Bethany Home	1	0	0	1	0
St. Aloysius Asylum	1	1	1	0	3
St. Vincent de Paul Asylum.....	85	45	48	32	76
R. C. Convent.....	2	2	3	3	4
Lying-in Hospital.....	49	69	89	66	56
Hotels.....	3	5	5	7	8
Private Hospitals.....	28	19	15	6	5
Police Station.....	0	2	3	2	2
Bays, Rivers, and Ponds.....	12	11	13	16	13
Railroad Tracks	12	7	6	2	7
Shops and Factories.....	7	3	6	3	5
Street.....	10	7	14	15	11
Others.....	12	12	10	8	12
Unknown	0	0	0	0	2

Aggregate and Average Age and Season. The following table II, shows the number of deaths and the aggregate and average age of the decedents in Providence, *according to parentage*, in each month and in the whole year, 1903:

TABLE II. DEATHS, 1903.

(TABLE XIII. Previous to 1898.)

Aggregate and Average Age by Parentage.

MONTHS. 1903.	American Parentage.			Foreign Parentage.			Total, American and Foreign.		
	Number of Deaths.	Aggregate Age.	Average Age.	Number of Deaths.	Aggregate Age.	Average Age.	Number of Deaths.	Aggregate Age.	Average Age.
January	131	5,124	39.11	243	8,380	34.48	374	13,504	36.11
February.....	126	4,788	38.00	231	7,429	32.16	357	12,217	34.22
March	140	5,082	36.30	214	7,070	33.63	354	12,152	34.32
April.....	117	4,377	37.41	206	5,879	28.53	323	10,256	31.75
May.....	101	3,625	35.89	197	6,097	30.94	298	9,722	32.62
June.....	101	2,852	28.23	203	5,357	26.38	304	8,209	27.00
July.....	138	3,726	27.00	244	5,735	23.50	382	9,461	24.76
August.....	104	3,370	32.40	235	6,965	29.63	339	10,335	30.48
September.	115	3,205	27.87	186	6,448	34.66	301	9,653	32.06
October.....	113	4,627	40.94	176	5,290	30.06	289	9,917	34.31
November.....	85	3,404	40.04	170	6,242	36.71	255	9,646	37.82
December	117	4,999	42.73	202	7,930	39.26	319	12,929	40.53
Year.....	1,388	49,179	35.43	2,507	78,822	31.44	3,895	128,001	32.86

The average age of the decedents of American parentage was 3.99 years greater than that of foreign parentage. The average age of all decedents in 1903, was 1.31 years less than in 1902; of decedents of American parentage, 1.37 less; of decedents of foreign parentage, 1.13 less.

The following table, III, gives the aggregate and average age of the decedents, by months and by parentage, in the aggregate for the forty-eight years from 1856 to 1903, inclusive:

TABLE III. DEATHS. FORTY-EIGHT YEARS, 1856-1903.

(TABLE XIV. PREVIOUS TO 1898.)

Aggregate and Average Age by Parentage.

FORTY-EIGHT YEARS, 1856-1903.	American Parentage.			Foreign Parentage.			Total American and Foreign.		
	Number of Deaths.	Aggregate Age.	Average Age.	Number of Deaths.	Aggregate Age.	Average Age.	Number of Deaths.	Aggregate Age.	Average Age.
January.....	4,018	151,137	37.61	4,966	154,385	31.09	8,984	305,522	34.00
February....	3,537	132,116	37.35	4,439	131,665	29.66	7,976	263,781	33.07
March... ..	3,844	142,964	37.19	4,661	139,911	30.02	8,505	282,875	33.26
April.....	3,705	137,324	37.06	4,606	141,112	30.63	8,311	278,436	33.50
May.....	3,464	129,240	37.31	4,374	136,456	31.19	7,838	265,696	33.89
June.....	3,006	108,071	35.95	3,920	111,007	28.32	6,926	219,078	31.62
July.....	3,921	102,290	26.09	5,676	128,415	22.62	9,597	230,705	24.03
August.....	3,994	113,772	28.48	5,613	132,889	23.67	9,607	246,661	25.67
September...	3,403	102,860	30.22	4,739	120,574	25.44	8,142	223,434	27.44
October.....	3,324	115,032	34.60	4,452	125,152	28.11	7,776	240,184	30.89
November...	3,276	119,383	36.44	4,244	127,403	30.02	7,520	246,786	32.81
December...	3,772	143,856	38.14	4,676	146,596	31.35	8,448	290,452	34.38
Totals.....	43,264	1,498,045	34.62	56,366	1,595,565	28.31	99,630	3,093,610	31.05

The average age of American decedents during this period of forty-eight years, was 6.31 years greater than that of the foreign class.

In the reports for 1882, 1885 and 1886, more extended comparisons are made between the two classes of decedents, in the matter of age.

Percentages of decedents at different ages. The next Table IV, shows the number and percentage of the decedents, *by parentage*, in the different divisions of ages in 1903, and also in the aggregate for forty-eight years, from 1856 to 1903, inclusive:

TABLE IV. DEATHS, 1903.

(TABLE XV. Previous to 1898.)

Percentages of Decedents at different ages.

AGES.	American Parentage, 1903.		Foreign Parentage, 1903.		Total American & Foreign Parentage, 1903.		48 Years, 1856-1903.	
	Number of Deaths.	Per cent.	Number of Deaths.	Per cent.	Number of Deaths.	Per cent.	Number of Deaths.	Per cent.
Under 1 year	347	25.00	535	21.34	882	22.64	20,964	29.34
1 and under 2	80	5.76	189	7.54	269	6.91	6,731	6.73
2 " " 5	78	5.62	136	5.42	214	5.49	6,906	6.93
Total under 5	505	36.38	860	34.30	1,365	35.04	33,900	34.02
5 and under 10	37	2.67	72	2.87	109	2.80	3,863	3.88
10 " " 15	16	1.15	24	.96	40	1.03	1,720	1.73
15 " " 20	27	1.95	42	1.68	69	1.77	3,027	3.04
20 " " 30	85	6.12	211	8.42	296	7.60	9,005	9.64
30 " " 40	72	5.19	268	10.61	338	8.68	9,117	9.15
40 " " 50	98	7.06	234	9.33	332	8.52	8,306	8.34
50 " " 60	110	7.83	300	11.97	410	10.53	8,795	8.83
60 " " 70	156	11.24	272	10.85	428	10.99	8,953	8.96
70 " " 80	152	10.95	152	6.06	304	7.80	7,696	7.73
80 " " 90	110	7.92	64	2.55	174	4.47	3,949	3.96
90 and over	20	1.44	10	.40	30	.77	697	.79
Totals	1,388	100.00	2,507	100.00	3,895	100.00	99,630	100.00

The ratio of deaths under one year to births, according to parentage is shown in Table XXIII, the last table in the report.

The following table shows the percentage of decedents in Providence, under 5 years of age, according to parentage, in periods of five years each, 1856 to 1900; also in each year since 1900, and in the whole period of forty-eight years, from 1856 to 1903, inclusive:

TABLE V. DEATHS.

(TABLE XVI. Previous to 1898.)

Percentage under five years, according to Parentage.

PERIODS.	American Parentage, 48 years, 1856-1903.			Foreign Parentage, 48 years, 1856-1903.			American & Foreign Parentage, 48 years, 1856-1903.		
	Total Deaths.	Deaths under 5 years.	Percentage under 5 years.	Total Deaths.	Deaths under 5 years.	Percentage under 5 years.	Total Deaths.	Deaths under 5 years.	Percentage under 5 years.
1856-1860.	2,567	856	33.35	2,340	1,218	52.05	4,907	2,074	42.27
1861-1865.	2,875	882	30.68	2,796	1,342	48.00	5,671	2,224	39.22
1866-1870.	2,906	804	27.67	2,719	1,128	41.49	5,625	1,932	34.36
1871-1875.	4,136	1,297	31.36	4,342	1,788	41.18	8,478	3,085	36.89
1876-1880.	4,533	1,547	34.13	5,365	2,145	39.98	9,898	3,692	37.30
1881-1885. . . .	5,015	1,613	32.18	6,097	1,859	30.49	11,112	3,472	31.25
1886-1890.	5,480	1,880	34.31	7,482	2,299	30.73	12,962	4,179	32.24
1891-1895.	5,890	1,948	33.07	8,826	2,765	31.32	14,716	4,713	32.03
1896-1900.	5,891	2,026	34.39	9,637	3,039	31.53	15,528	5,065	32.62
1901.	1,301	415	31.90	2,143	632	29.49	3,444	1,047	30.40
1902.	1,282	402	31.35	2,112	650	30.78	3,394	1,052	30.99
1903.	1,388	505	36.38	2,507	860	34.30	3,895	1,365	35.04
48 years.	43,264	14,175	32.76	56,366	19,725	34.99	99,630	33,900	34.02

For a consideration of the true comparison of the death rates of the two classes of the population, see report for 1894, page 45.

During the fifteen years, from 1840 to 1854, inclusive, of all the decedents in the city, 43.56 in each 100 were under 5 years of age; from 1856 to 1880, inclusive, of all the decedents 37.61 in each 100 were under 5 years; from 1881 to 1890 of all decedents 31.78 in each 100 were under 5 years, and from 1891 to 1903, inclusive, the percentage under 5 years was 32.31.

The following figures show the same facts in regard to decedents under one year of age. During the fifteen years 1840 to 1854, inclusive, of all the decedents in the city 18.87 in each 100 were under one year of age; from 1856 to 1880, inclusive, 19.40 in each 100; from 1881 to 1890, inclusive, 13.93 in each 100; and from 1891 to 1903, inclusive, the ratio was 21.95 in each 100.

In the sixty-four years, 1840 to 1903, inclusive, there were 112,775 decedents in Providence, of whom 39,635, or 35.14 per cent., were under 5 years of age. The number and percentage in each division of age under 5 years were as follows:

Whole number of decedents in 64 years.....	112,775	
Under one year of age.....	22,769	20.19
One and under two years.....	8,514	7.55
Two and under five years.....	8,352	7.40
Total under five years.....	39,635	35.14

The following table VI. shows the number and percentage, by parentage, of the decedents in each division of age, in the forty-eight years, from 1856 to 1903, inclusive:

TABLE VI. DEATHS, 1856-1903.

(TABLE XVII Previous to 1898.)

Number and Percentage at Different Ages, according to Parentage.

AGES.	American Parentage, 48 years, 1856-1903.		Foreign Parentage, 48 years, 1856-1903.		American & Foreign Parentage, 48 years, 1856-1903.	
	Number of Deaths.	Per cent.	Number of Deaths.	Per cent.	Number of Deaths.	Per cent.
Under 1 year.....	8,838	20.43	11,426	20.27	20,264	20.34
1 and under 2.....	2,573	5.94	4,158	7.38	6,731	6.75
2 " " 5.....	2,764	6.39	4,141	7.34	6,905	6.93
Total.....	14,175	32.76	19,725	34.99	33,900	34.02
5 and under 10.....	1,716	3.97	2,147	3.81	3,863	3.88
10 " " 15.....	805	1.86	915	1.62	1,720	1.73
15 " " 20.....	1,231	2.84	1,796	3.19	3,027	3.04
20 " " 30.....	3,176	7.34	6,429	11.41	9,605	9.64
30 " " 40.....	3,139	7.25	5,978	10.61	9,117	9.15
40 " " 50.....	3,175	7.34	5,131	9.10	8,306	8.34
50 " " 60.....	3,607	8.34	5,188	9.20	8,795	8.83
60 " " 70.....	4,260	9.85	4,693	8.33	8,953	8.98
70 " " 80.....	4,697	10.86	3,001	5.32	7,698	7.73
80 " " 90.....	2,822	6.52	1,127	2.00	3,949	3.96
90 and over.....	461	1.07	236	.42	697	.70
Totals.....	43,264	100.00	56,366	100.00	99,630	100.00

TABLE VII. (Previous to 1898 XVIII.) *Deaths by Age and Parentage.*

DIVISIONS OF THE YEAR.	DIVISIONAL PERIODS OF LIFE.															All Ages.
	Under 1 year.	1 to 2.	2 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 to 90.	90 to 100.	100 and over.	
AMERICAN PARENTAGE.	January	30	6	5	4	4	1	5	9	11	10	14	15	14	3	131
	February	31	8	5	2	2	3	7	8	6	15	14	10	15	2	128
	March	36	12	5	1	2	4	10	4	9	10	18	11	16	2	140
	1st Quarter..	97	26	15	7	6	8	22	21	26	35	46	36	45	7	379
	April	16	10	11	3	1	2	9	10	8	8	12	19	8	2	117
	May	21	8	8	6	1	2	7	7	8	7	8	11	10	2	101
	June	32	8	8	2	1	2	5	5	5	11	8	10	3	1	101
	2d Quarter..	69	21	27	11	3	6	21	22	21	26	28	40	21	3	319
	July	44	12	11	9	1	2	8	6	6	4	9	13	11	2	138
	August	32	5	6	2	2	2	4	4	5	13	14	11	2	2	104
	September ..	41	5	8	3	1	11	5	5	11	10	9	4	2	2	115
	3d Quarter..	117	22	25	14	4	4	23	15	16	28	33	33	17	6	357
	October	24	3	2	3	1	1	9	8	14	7	19	12	10	1	113
	November ..	18	3	5	1	2	2	5	2	10	4	10	15	7	1	85
	December ..	22	5	4	1	1	6	5	4	11	10	20	16	10	2	117
	4th Quarter..	64	11	11	5	3	9	19	14	35	21	49	43	27	3	315
	Year	347	80	78	37	16	27	85	72	98	110	156	152	110	19	1,388
FOREIGN PARENTAGE.	January	49	16	9	5	1	2	19	33	21	33	29	20	5	1	243
	February	50	15	17	5	1	4	18	14	24	29	26	17	5	3	231
	March	43	12	12	6	1	3	18	25	27	19	25	19	4	1	214
	1st Quarter..	142	46	38	16	3	9	55	72	72	81	80	56	14	3	688
	April	44	23	12	3	3	3	17	26	21	23	19	7	5	1	206
	May	32	23	14	8	2	5	13	21	16	25	20	11	6	1	197
	June	47	22	16	7	5	5	19	15	14	21	20	6	6	1	305
	2d Quarter..	123	68	42	18	10	13	49	62	51	69	59	24	17	1	606
	July	83	23	10	9	3	5	19	19	21	19	16	9	8	1	244
	August	55	18	17	14	1	4	18	20	18	35	20	12	7	1	255
	September ..	35	13	8	5	2	3	12	23	14	25	28	12	5	1	186
	3d Quarter..	173	54	30	28	6	12	49	62	53	79	64	33	20	2	685
	October	41	7	12	3	2	5	17	21	21	17	20	6	4	1	178
	November ..	28	7	4	5	2	1	19	21	20	25	19	15	4	1	179
	December ..	28	7	10	2	1	2	22	28	17	29	30	18	5	2	202
	4th Quarter..	97	21	26	10	5	8	58	70	58	71	69	39	13	2	548
	Year	535	189	136	72	24	42	211	266	234	300	272	152	64	8	2,545
Total American and Foreign		882	269	214	109	40	69	296	338	332	410	428	304	174	27	3,933

The whole number of American decedents was 1,388; of decedents of foreign parentage, 2,507. The percentage of each class in the different quarters of the year was as follows:

	1st Quarter.	2d Quarter.	3d Quarter.	4th Quarter.
American Parentage.....	28.60	22.98	25.72	22.70
Foreign Parentage.....	27.44	24.17	26.53	21.86

Table VII shows the relative mortality at different ages and seasons. Of the 357 American decedents in the third quarter, 117, or 37.71 per cent., were less than a year old. The whole number of American decedents under one year was 347; the 117 who died in the third quarter were 33.72 per cent. of this number.

Of decedents of foreign parentage, the number in the third quarter was 665; of these, 173, or 26.02 per cent., were less than one year old; the whole number of foreign decedents of this age was 535; the 173 dying in the third quarter of the year were 32.34 per cent. of the whole number.

Causes of Death. Table VIII gives the number of deaths in Providence in 1903, from each cause stated, and in each division of ages; also the number of decedents from each cause according to sex and parentage; the percentage of deaths from each cause of the whole number from known causes, and also the ratio of deaths from each cause to 100,000 of the population.

Season and Disease. Table IX shows the number of deaths from some of the most prominent causes in each month and quarter of the year 1903, showing the comparative mortality from different diseases at different seasons.

Totals for a period of years. Table X gives the number of deaths from the principal causes for a period of years, distributed according to sex and parentage, and also the ratio of deaths from each cause to the total population for the same period.

TABLE VIII. (Table XIX previous to 1898.) DEATHS, 1903. *Disease, Sex, Age, Parentage, Percentage of Known Causes, Ratio per 100,000 of Population.*
Causes numbered according to Bertillon classification.

CAUSES OF DEATH.	SEX.		DIVISIONAL PERIODS OF LIFE.											PARENTAGE.		Ratio to Known Causes.	RATIO PER 100,000 OF POPULATION.		Total.		
	Males.	Females.	Total.	Under 1 year.	1 to 2.	2 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.		80 to 90.	90 and over.		American.	Foreign.
I. GENERAL DISEASES.																					
1 Typhoid Fever.....	23	14	37	1	1	6	4	3	8	10	1	3	1	1	1	1	1	1	13.03	24.22	19.99
4 Intermittent Fever and Malarial Cachexia.....	2	4	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5.19	5.19	3.24	
6 Measles.....	51	38	89	28	35	18	5	1	1	1	1	1	1	1	1	1	1	40.54	52.77	48.10	
7 Scarlet Fever.....	16	9	25	1	4	6	11	2	1	1	1	1	1	1	1	1	1	12.97	12.97	13.51	
8 Pertussis.....	33	44	77	38	25	13	1	1	1	1	1	1	1	1	1	1	1	55.01	33.74	41.62	
9-1 Diphtheria.....	38	36	74	5	12	30	18	2	1	1	1	1	1	1	1	1	1	44.88	37.20	39.99	
9-2 Membranous Croup.....	4	7	11	2	7	2	1	1	1	1	1	1	1	1	1	1	1	2.89	7.78	5.94	
10 Influenza.....	29	37	66	5	6	2	1	1	1	1	1	1	1	1	1	1	1	43.43	31.14	36.67	
14 Dysentery.....	29	20	49	9	11	4	5	1	1	1	1	1	1	1	1	1	1	18.82	31.14	26.48	
18 Erysipelas.....	9	3	12	3	1	1	1	1	1	1	1	1	1	1	1	1	1	13.03	2.69	6.48	
19 Other Epidemic Diseases.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.44	0.96	1.08	
20 Purulent Septicæmia and Infection.....	6	9	15	4	1	1	1	1	1	1	1	1	1	1	1	1	1	8.68	7.78	8.10	
22 Malignant Pustule.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.03	0.96	0.54	
26 Tuberculosis of Larynx.....	1	3	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.44	2.69	2.16	
27 Tuberculosis of the Lungs.....	207	161	371	3	4	5	1	4	19	102	62	44	19	4	1	1	1	150.57	230.99	200.54	
28 Tuberculosis of Meninges.....	24	17	41	11	8	12	3	1	1	1	1	1	1	1	1	1	1	23.16	21.62	22.16	
29 Abdominal Tuberculosis.....	11	7	18	4	1	5	2	1	1	1	1	1	1	1	1	1	1	10.13	9.61	9.72	
32 White Swelling.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.08	1.44	0.54	
33 Tuberculosis of other Organs.....	1	4	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4.34	1.78	2.70	
34 General Tuberculosis.....	30	16	46	16	6	1	1	1	1	1	3	4	1	1	1	1	1	30.40	21.62	24.96	

TABLE VIII. (Table XIX previous to 1898.) DEATHS, 1903. *Disease, Sex, Age, Parentage, Percentage of Known Causes, Ratio per 100,000 of Population.*
Causes numbered according to Bertillon classification.

CAUSES OF DEATH.	SEX.		DIVISIONAL PERIODS OF LIFE.													PARENTAGE.		Ratio to Known Causes.		RATIO PER 100,000 OF POPULATION.				
	Males.	Females.	Total.	(Under 1 year.	1 to 2.	2 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 to 90.	90 and over.	American.	Foreign.	Total.				
36 Syphilis.....	7	6	13	9	1				2			1						4	9	13	0.34	5.79	7.78	7.02
39 Cancer of Buccal Cavity.....	3	2	5															2	3	5	0.13	2.89	2.69	2.70
40 Cancer of Stomach and Liver.....	24	32	56						1	3	12	15	14	10	1			15	41	56	1.46	21.71	35.47	30.27
41 Cancer of Peritoneum, Intestines and Rectum.....	11	10	21							2	2	4	3	5	4	1		9	12	21	0.55	13.03	10.38	11.35
42 Cancer of Female Genital Organs.....	27		27								1	10	6	8	2			9	18	27	0.70	13.03	15.57	14.89
43 Cancer of Breast.....	20	20	40							2	2	5	6	3	2	1		10	10	20	0.52	14.47	8.65	10.81
44 Cancer of Skin.....	2		2															1	1	2	0.05	1.44	0.86	1.08
45 Cancer of other organs.....	6	14	20							1	7	5	5	1	1			5	16	20	0.52	7.23	12.97	10.81
46 Other Tumors.....	1	1	2															4	7	11	0.03	0.86	0.86	0.84
47 Acute Rheumatism.....	7	4	11							1	2	4	3	1				4	2	4	0.28	5.79	6.05	5.94
48 Chronic Rheumatism.....	4	4	8							1	1	2	1					2	2	4	0.10	2.89	1.73	2.16
49 Diabetes.....	20	13	33	1						3	3	1	10	10	3	2		14	19	33	0.63	20.27	16.43	17.83
50 Exophthalmic Goiter.....	2	2	4								1	1	1					2	2	4	0.03	1.44	1.73	1.08
53 Leukemia.....	1	1	2															1		1	0.03	1.44		0.54
54 Anemia, Chlorosis.....	2	8	10								1	3	1	2	1			4	6	10	0.26	5.79	5.19	5.40
55 Other General Diseases.....	1	1	2	2														2	2	4	0.05	1.73	1.73	1.08
56 Acute and Chronic Alcoholism.....	26	6	32							4	13	5	6	4				9	23	32	0.83	13.03	19.89	17.29
57 Chronic Lead Poisoning.....	1	1	2															1	1	1	0.03	0.86	0.86	0.84
59 Other Chronic Poisonings.....																		1	1	1	0.03		0.86	0.54
Totals.....	625	588	1213	141	116	112	56	15	32	157	155	123	125	98	53	24	4	419	784	1,213	31.54	606.66	686.92	655.57

TABLE VIII. (Table XIX previous to 1898.) DEATHS, 1903. *Disease, Sex, Age, Parentage, Percentage of Known Causes, Ratio per 100,000 of Population.*
Causes numbered according to Bertillon classification.

CAUSES OF DEATH.	SEX.		DIVISIONAL PERIODS OF LIFE.													PARENTAGE.			RATIO PER 100,000 OF POPULATION.		
	Males.	Females.	Total.	Under 1 year.	1 to 2.	2 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 to 90.	90 and over.	American.	Foreign.	Totals.	
II. DISEASES OF THE NERVOUS SYSTEM AND THE ORGANS OF SPECIAL SENSE.																					
61-1 Simple Meningitis.....	31	28	59	18	9	12	6	1	2	3	4	2	1	1	1	1	1	1.53	27.50	34.60	31.89
61-2 Meningitis, Cerebro-Spinal.....	8	3	11	2	3	2	2	1	1	1	1	1	1	1	1	1	1	0.28	1.44	8.65	5.94
62 Progressive Locomotor Ataxia.....	3	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.10	0.28	3.46	2.16
63 Other Diseases of Spinal Cord.....	3	4	7	2	1	1	1	1	1	1	1	1	1	1	1	1	1	0.18	4.34	3.46	3.78
64-1 Cerebral Hemorrhage.....	47	94	141	2	1	1	1	1	1	2	2	16	29	35	30	21	3	3.67	81.08	73.53	76.21
64-2 Congestion of Brain.....	2	4	6	3	1	1	1	1	1	2	1	3	1	1	1	1	1	0.16	5.79	1.73	3.94
65 Softening of the Brain.....	5	3	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.13	2.89	2.69	2.70
66 Paralysis.....	5	11	16	1	1	1	1	1	1	1	1	4	5	3	2	1	1	0.42	15.92	4.32	8.64
67 General Paralysis.....	6	4	10	1	1	1	1	1	1	1	1	3	2	2	3	1	1	0.26	7.23	4.32	5.40
68 Other forms of mental alienation.....	1	3	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.10	1.44	2.59	2.16
69 Epilepsy.....	5	4	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.23	4.34	5.19	4.86
70 Convulsions (5 years and over).....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.03	0.86	0.86	0.54
71 Convulsions (under 5 years).....	13	18	31	22	5	4	1	1	1	1	1	1	1	1	1	1	1	0.80	24.61	12.11	16.75
72 Tetanus.....	4	2	6	3	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6	5.19	5.19	3.24
73 Other Diseases of the Brain.....	2	3	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.15	4.32	4.32	2.70
74-1 Other Diseases of the Nervous System.....	4	2	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.13	2.89	3.46	3.24
74-2 Diseases of the Ear.....	7	1	8	2	3	1	1	1	1	1	1	1	1	1	1	1	1	0.21	4.34	4.32	4.32
Totals.....	143	186	329	51	21	22	9	8	6	14	11	26	41	51	41	20	4	8.55	183.86	174.75	177.83

TABLE VIII. (Table XIX previous to 1898.) DEATHS, 1903. *Disease, Sex, Age, Parentage, Percentage of Known Causes, Ratio per 100,000 of Population.*
Causes numbered according to Bertillon classification.

CAUSES OF DEATH.	SEX.		DIVISIONAL PERIODS OF LIFE.													PARENTAGE.			Ratio to Known Causes.	RATIO PER 100,000 OF POPULATION.		
	Males.	Females.	Total.	Under 1 year.	1 to 2.	2 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 to 90.	90 and over.	American.		Foreign.	Total.	
III. DISEASE OF THE CIRCULATORY SYSTEM.																						
77 Pericarditis.....	1	1	2	...	...	...	...	...	...	1	2	3	3	1	1	...	...	1	6	1	0.03
78 Acute Endocarditis.....	9	5	14	...	...	...	...	...	...	3	4	12	25	57	79	99	29	3	107	185	7.56
79 Organic Diseases of the Heart.....	142	160	292	1	1	...	...	...	...	1	2	1	6	9	29	...	...	17	107	185	157.83
80 Angina Pectoris.....	11	6	17	...	...	...	...	...	...	1	2	1	2	4	6	...	...	10	10	19	9.18
81-1 Aneurism.....	3	5	8	...	...	...	...	...	...	3	1	2	1	2	3	...	...	2	6	8	5.19
81-2 Diseases of the Arteries.....	3	5	8	...	...	...	...	...	...	3	1	2	1	2	3	...	...	2	6	8	5.19
82 Embolism and Thrombosis.....	5	4	9	...	...	...	...	...	...	1	2	1	1	1	1	...	...	6	3	9	2.59
83 Diseases of the Veins.....	1	1	2	...	...	...	...	...	...	1	2	1	1	1	1	...	...	3	6	9	2.59
85 Hemorrhages.....	8	...	8	3	1	1	1	1	1	1	2	...	...	...	...	...	...	3	5	8	4.32
Totals.....	183	175	358	4	1	6	5	4	18	22	31	69	93	67	34	3	140	218	358	188.60	183.51	
IV. DISEASES OF THE RESPIRATORY SYSTEM.																						
88 Diseases of the Larynx.....	3	4	7	1	2	1	1	1	1	2	1	3	7	5	3	4	3	1	6	7	0.18	
90 Acute Bronchitis.....	46	51	97	51	16	2	...	...	...	...	...	...	...	...	...	...	...	23	71	97	2.52
91 Chronic Bronchitis.....	13	16	29	3	1	...	...	...	...	1	1	4	5	8	5	1	...	7	22	29	0.75
92 Broncho Pneumonia.....	55	58	113	35	18	7	1	1	1	4	4	13	12	14	3	1	...	28	55	113	2.93	
93 Pneumonia.....	160	128	288	55	32	20	5	3	5	19	31	31	29	32	22	2	...	85	203	283	7.49	
94 Pleurisy.....	4	9	13	1	1	2	...	...	...	1	1	1	3	2	2	2	...	8	5	13	0.34

TABLE VIII. (Table XIX previous to 1898.) DEATHS, 1903. *Disease, Sex, Age, Parentage, Percentage of Known Causes, Ratio per 100,000 of Population.*
Causes numbered according to Bertillon classification.

CAUSES OF DEATH.	SEX.		DIVISIONAL PERIODS OF LIFE.												PARENTAGE.			Ratio to Known Causes.	RATIO PER 100,000 OF POPULATION.				
	Males.	Females.	Total.	Under 1 year.												American.	Foreign.		Total.				
				1 to 2.	2 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 to 90.					90 and over.			
95 Congestion and Apoplexy of Lungs.....	4	4	8	3	2	1	1	1	1	1	1	1	1	1	1	4	4	8	0.21	5.79	3.46	4.32	
97 Asthma.....	3	5	8	1	1	1	1	1	1	1	1	1	1	1	1	3	5	8	0.21	4.34	4.32	4.32	
98 Pulmonary Emphysema.....	1	2	3	1	1	1	1	1	1	1	1	1	1	1	1	2	1	3	0.08	2.89	0.86	1.62	
99-1 Hemorrhage from Lungs.....	1	2	3	2	1	1	1	1	1	1	1	1	1	1	1	1	2	3	0.08	1.44	1.73	1.62	
99-2 Other Diseases of Respiratory System.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	0.03	0.86	0.86	0.86	
Totals.....	290	280	570	151	69	35	9	4	7	22	37	41	57	61	50	20	165	405	570	14.82	238.89	350.38	308.10
V. DISEASES OF THE DIGESTIVE SYSTEM.																							
100 Affections of the mouth and its adnexa.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.03	1.44	0.86	0.86	
101-1 Diseases of the Pharynx.....	2	2	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	0.05	1.44	0.86	1.08	
101-2 Other Diseases of the Pharynx.....	2	2	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	0.05	1.44	0.86	1.08	
103 Ulcer of the stomach.....	2	2	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	0.10	4.34	0.86	2.16	
104-1 Gastritis.....	16	19	35	8	4	3	1	1	1	1	1	1	1	1	1	3	4	4	0.91	11.56	23.35	18.91	
104-2 Other Diseases of the Stomach.....	22	16	38	29	4	3	1	1	1	1	1	1	1	1	1	15	23	38	0.99	21.71	19.89	20.54	
105 Diarrhea and Enteritis (under 2 years).....	147	110	258	222	41	17	8	1	1	1	1	1	1	1	1	63	170	233	0.84	134.65	147.07	142.16	
106 Diarrhea and Enteritis (2 years and over).....	21	36	57	17	8	1	1	1	1	1	1	1	1	1	1	14	43	57	1.48	20.27	37.30	30.81	

TABLE VIII. (Table XIX previous to 1898.) DEATHS, 1903. *Disease, Sex, Age, Parentage, Percentage of Known Causes, Ratio per 100,000 of Population.*
Causes numbered according to Bertillon classification.

CAUSES OF DEATH.	SEX.		DIVISIONAL PERIODS OF LIFE.													PARENTAGE.			RATIO PER 100,000 OF POPULATION.					
	Males.	Females.	Total.	Under 1 year.	1 to 2.	2 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 to 90.	90 and over.	American.	Foreign.	Total.	Ratio to Known Causes.			
108-1 Hernia.....	6	5	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	10	11	0.28	1.44	8.65	5.94
108-2 Obstruction of Intestines.....	10	9	19	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8	11	19	0.50	11.58	9.51	10.27
109 Other Diseases of the Intestines.....	4	6	10	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	4	10	0.26	8.68	3.46	5.40
110 Acute Yellow Atrophy of Liver.....	1	1	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
112 Cirrhosis of Liver.....	29	14	43	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	35	43	0.05	1.44	0.86	1.08
113 Biliary Calculi.....	1	3	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
114 Other Diseases of the Liver.....	6	2	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
115 Diseases of Spleen.....	1	1	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
116 Peritonitis.....	6	6	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
117 Other Diseases of Digestive System.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
118 Appendicitis.....	23	13	36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals.....	300	250	550	270	51	25	10	5	9	19	23	40	38	32	17	10	1	179	371	550	14.30	259.16	320.96	297.29
VI. DISEASES OF THE GENITO-URINARY SYSTEM AND ITS ADJEXA.																								
119 Acute Nephritis.....	15	17	32	4	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13	19	32	0.53	18.82	16.43	17.29
120 Bright's Disease.....	141	106	247	3	1	2	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	90	157	247	6.42	130.30	135.82	133.51

TABLE VIII. (Table XIX previous to 1898.) DEATHS, 1903. *Disease, Sex, Age, Parentage, Percentage of Known Causes, Ratio per 100,000 of Population.*
Causes numbered according to Bertillon classification.

CAUSES OF DEATH.	SEX.		DIVISIONAL PERIODS OF LIFE.													PARENTAGE.			Ratio to Known Causes.	RATIO PER 100,000 OF POPULATION.				
																American.	Foreign.	Total.						
	Males.	Females.	Total.	Under 1 year.	1 to 2.	2 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 to 90.							90 and over.	American.	Foreign.	Total.
121 Other Diseases of the Kidneys.....	6	3	9	.....	.....	.....	.....	.....	.....	1	1	1	1	1	1	2	.....	5	4	9	0.23	7.23	3.46	4.86
122 Calculi of the Urinary Tract.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.03	0.86	0.86	0.54
123 Diseases of Bladder.....	2	2	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.03	1.73	1.73	2.16
124 Diseases of the Urethra.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.03	1.44	0.86	0.54
125 Diseases of Prostate.....	13	13	26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.34	14.47	2.59	7.02
126 Uterine Tumors.....	8	8	16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.21	4.34	4.32	4.32
129 Other Diseases of the Uterus.....	2	2	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.05	1.44	0.86	1.06
130 Cysts and other Tumors of Ovary.....	3	3	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.08	1.44	1.73	1.62
132-1 Diseases of Tubes.....	5	5	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.13	2.89	2.59	2.70
Totals.....	178	147	325	7	3	4	6	26	40	42	55	45	23	2	2	128	197	325	8.45	185.32	170.43	175.67		
VII. THE PUERPERAL STATE.																								
134 Accidents of Pregnancy.....	.....	5	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.13	2.89	2.59	2.70
135 Puerperal Hemorrhage.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.03	0.86	0.86	0.54
136 Other Accidents of Labor.....	.....	6	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.15	1.44	4.32	3.24
137 Puerperal Septicæmia.....	.....	10	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.26	1.44	7.78	6.40
138 Puerperal Albuminuria and Convulsions.....	.....	5	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.13	2.89	2.59	2.70
140 Other puerperal Accidents.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.03	1.44	0.86	0.54
Totals.....	.....	28	28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.73	10.13	18.16	15.13

TABLE VIII. (Table XIX previous to 1898.) DEATHS, 1903. *Disease, Sex, Age, Parentage, Percentage of Known Causes, Ratio per 100,000 of Population.*
Causes numbered according to Bertillon classification.

CAUSES OF DEATH.	SEX.		DIVISIONAL PERIODS OF LIFE.													PARENTAGE.			RATIO PER 100,000 OF POPULATION.					
	Males.	Females.	Total.	Under 1 year.	1 to 2.	2 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 to 90.	90 and over.	American.	Foreign.	Total.				
VIII. DISEASES OF THE SKIN AND CELLULAR TISSUE.																								
142 Gangrene.....	3	5	8	.....	.....	.....	.....	.....	.....	.....	.....	1	1	3	1	2	.....	2	6	8	0.21	2.80	5.19	4.32
143 Carbuncle.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	0.03	1.44	.....	0.54
144 Acute Abscess, Phlegmon.....	1	3	4	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	2	2	4	0.10	2.89	1.73	2.16
Totals.....	5	8	13	1	.....	.....	.....	.....	.....	.....	2	1	2	3	2	2	.....	5	8	13	0.34	7.23	6.92	7.02
IX. DISEASES OF THE ORGANS OF LOCOMOTION.																								
146 Non-Tuberculous Diseases of bones.....	4	2	6	1	1	2	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	2	4	6	0.16	2.89	3.46	3.24
147 Arthritis and other Diseases of the Joints.....	.....	2	2	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	2	2	0.05	.....	1.73	1.08
Totals.....	4	4	8	1	1	2	1	.....	.....	.....	1	1	1	.....	.....	.....	.....	2	6	8	0.21	2.89	5.19	4.32
X. MALFORMATIONS.																								
150-1 Congenital Malformations, Hydrocephalous.....	1	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	0.03	.....	0.86	0.54
150-2 Congenital Malformation of Heart.....	19	4	23	23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13	10	23	0.59	18.82	8.65	12.43
150-3 Other Congenital Malformations.....	1	7	8	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	5	8	0.21	4.34	4.32	4.32
Totals.....	21	11	32	32	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16	16	32	0.83	23.16	13.84	17.29

TABLE VIII. (Table XIX previous to 1898.) DEATHS, 1903. *Disease, Sex, Age, Parentage, Percentage of Known Causes, Ratio per 100,000 of Population.*
Causes numbered according to Bertillon classification.

CAUSES OF DEATH.	SEX.		DIVISIONAL PERIODS OF LIFE.														PARENTAGE.			Ratio to Known Causes.	RATIO PER 100,000 OF POPULATION.		
	Males.	Females.	Total.	Under 1 year.	1 to 2.	2 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 to 90.	90 and over.	American.	Foreign.		Total.		
XI. EARLY INFANCY.																							
151-1 Premature Birth.....	43	38	81	81	..	..	..	..	..	..	..	..	..	..	..	..	..	59.36	34.60	43.78
151-2 Congenital Debility (under 3 mos.).....	40	26	66	66	..	..	..	..	..	..	..	..	..	..	..	..	..	40.54	32.87	35.67
152 Other Diseases of Early Infancy.....	4	1	5	5	..	..	..	..	..	..	..	..	..	..	..	..	..	5.79	0.86	2.70
153 Lack of Care (under 3 mos.).....	4	5	9	9	..	..	..	..	..	..	..	..	..	..	..	..	..	4.34	5.19	4.86
Totals.....	91	70	161	161	..	..	..	..	..	..	..	..	..	..	..	..	..	110.03	73.53	87.02
XII. OLD AGE.																							
154 Senile Debility.....	20	27	47	..	..	..	..	..	..	..	..	..	..	..	..	..	..	43.43	14.70	25.40
XIII. EXTERNAL CAUSES.																							
155 Suicide by Poison.....	4	2	6	..	..	..	..	..	..	3	1	..	1	..	..	..	..	2.89	3.46	3.24
156 Suicide by Asphyxia.....	8	2	10	..	..	..	..	..	..	2	3	1	3	1	..	..	..	4.34	6.05	6.40
157 Suicide by Hanging.....	2	1	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.05	0.03	1.08
158 Suicide by Drowning.....	1	1	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.03	0.86	0.54
159 Suicide by Firearm.....	3	1	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0.86	0.86	1.02
160 Fractures.....	7	0	7	..	..	..	..	..	..	3	1	1	1	2	3	1	..	2.89	0.86	1.02
160-2 Injuries by Machinery.....	3	3	6	..	..	..	..	..	..	1	1	..	..	..	..	..	..	3.04	6.05	7.02
160-4 R. R. Accidents and Injuries.....	20	2	22	..	..	..	..	..	..	1	6	3	2	1	..	..	..	10.13	12.97	11.89
160-5 Injuries by Horses and Vehicles.....	12	1	13	..	..	..	..	..	..	1	1	1	1	1	..	..	..	4.34	8.05	7.02

TABLE VIII. (Table XIX previous to 1898.) DEATHS, 1903. *Disease, Sex, Age, Parentage, Percentage of Known Causes, Ratio per 100,000 of Population.*
Causes numbered according to Bertillon classification.

CAUSES OF DEATH.	SEX.		DIVISIONAL PERIODS OF LIFE.												PARENTAGE.			Ratio to Known Causes.	RATIO PER 100,000 OF POPULATION.					
	Males.	Females.	Total.	Under 1 year.	1 to 2.	2 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	American.		Foreign.	Total.				
166-6 Other accidental traumas	23	14	37	1	1	1	1	1	1	5	6	4	5	5	2	5	80 and over.	13	24	37	0.96	18.82	20.76	19.99
166-7 Electric Car Accidents.	7	7	14	1	1	1	1	1	1	1	1	2	2	2	1	..	..	4	3	7	0.18	5.79	2.69	3.78
166-8 Elevator Accidents.	2	2	4	1	1	1	1	1	1	1	1	1	1	1	1	..	..	..	2	2	4	0.08	1.73	1.08
167 Burns and Scalds.	4	13	17	1	1	7	1	1	1	3	2	1	1	1	1	..	..	5	12	17	0.44	7.23	10.38	9.18
168 Sunstroke and Heat Exhaustion.	1	2	3	1	1	1	1	1	1	1	1	1	1	1	1	..	..	1	1	2	0.08	1.44	0.86	1.08
170 Freezing	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	..	..	1	1	2	0.03	0.86	0.54	
172 Drowning	13	13	26	1	1	2	4	1	1	2	2	2	2	2	2	..	..	5	8	13	0.34	7.23	6.92	7.02
174 Absorption of Deleterious Gases.	14	6	20	..	..	..	1	1	1	4	6	5	1	1	1	1	..	8	12	20	0.51	11.58	10.38	10.81
175 Other Acute Poisonings.	3	3	6	..	..	1	1	1	1	1	1	1	1	1	1	..	..	1	2	3	0.08	1.44	1.73	1.62
176-1 Suffocation	3	6	9	6	6	1	1	1	1	1	1	1	1	1	1	..	..	3	3	6	0.10	4.34	2.69	3.24
176-2 Injuries at Birth.	13	9	22	22	22	22	22	22	22	22	22	22	22	22	22	..	..	9	13	22	0.57	13.03	11.24	11.89
176-3 Homicide.	3	3	6	1	1	1	1	1	1	1	3	1	1	1	1	..	..	1	5	6	0.16	1.44	4.32	3.24
176-4 Other External Violence.	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	..	..	..	1	1	0.03	0.86	0.54	
Totals.....	142	68	210	33	21	12	7	5	29	33	23	19	14	11	10	1	..	76	134	210	5.46	110.03	115.92	113.51
XIV. ILL-DEFINED DISEASES.																								
177 Dropsy.....	1	2	3	..	1	1	1	1	1	1	1	1	1	1	1	..	..	1	2	3	0.08	1.44	1.73	1.62
179 Unspecified or Ill-defined Causes.....	25	23	48	30	5	2	1	1	1	1	1	1	1	1	1	..	..	17	31	48	.....	24.61	26.81	25.94
Totals.....	26	25	51	30	5	3	1	1	1	1	1	1	1	1	1	..	..	18	33	51	.....	26.06	28.54	27.56

TABLE IX. (TABLE XX Previous to 1898. DEATHS, 1903. Season and Disease.

Bertillon Numbers.	CAUSES OF DEATH.	January.	February.	March.	First Quarter.	April.	May.	June.	Second Quarter.	July.	August.	September.	Third Quarter.	October.	November.	December.	Fourth Quarter.	Whole Year.
1	Typhoid Fever.....	4	.....	2	6	2	6	2	10	7	1	2	2	5	2	3	10	37
4	Fever, Intermittent and Malarial.....	1	.....	.....	.....	.....	.....	.....	.....	1	2	1	4	.....	1	.....	1	6
6	Measles.....	3	4	12	13	15	14	19	48	9	7	1	17	3	2	.....	5	89
7	Scarlet Fever.....	.....	2	1	3	1	6	5	12	1	3	2	6	2	2	.....	4	25
8	Whooping Cough.....	16	17	16	49	16	3	2	21	2	.....	.....	2	3	1	1	5	77
9	Diphtheria.....	8	15	4	15	4	6	7	17	12	2	7	21	3	8	10	21	74
9a	Croup.....	.....	1	1	1	1	1	1	2	.....	.....	1	3	.....	2	3	5	11
10	Infantile.....	6	13	31	50	10	2	1	12	14	19	8	41	.....	.....	.....	3	66
14	Dysentery.....	.....	.....	3	3	1	1	3	5	.....	.....	.....	.....	.....	.....	.....	.....	49
14	Erysipelas.....	1	1	2	4	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	4	12
27	Tubercle of Lungs.....	24	30	43	107	39	32	28	99	23	26	28	77	34	24	30	88	371
28-34	Other Tubercular Diseases.....	14	13	6	27	6	12	12	30	13	10	15	39	6	6	5	20	115
39-45	Cancer.....	14	12	10	36	12	10	13	35	11	16	14	41	14	11	14	39	161
47 & 48	Rheumatism, Acute and Chronic.....	1	.....	1	2	1	2	2	6	3	1	.....	4	.....	2	.....	3	15
61	Alcoholism.....	3	1	2	7	1	3	1	5	.....	.....	.....	.....	7	5	6	13	32
61	Menstritis, Cerebro-Spinal.....	.....	.....	1	5	.....	.....	.....	1	4	.....	.....	.....	.....	.....	.....	.....	11
67 & 68	General Paralysis and Other Insanity.....	4	4	4	11	2	1	1	3	.....	.....	.....	.....	1	.....	.....	2	14
77	Convulsions.....	4	3	4	11	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	30
77-80	Heart, Diseases of.....	42	28	91	80	37	19	23	73	22	37	22	83	20	27	39	79	324
80 & 91	Bronchitis, Acute and Chronic.....	16	23	17	55	12	11	7	30	7	6	5	17	8	7	.....	24	128
92 & 93	Pneumonia.....	58	62	48	106	36	30	20	89	16	9	16	41	20	29	50	99	401
103 & 104	Pleurisy and Other Diseases of Lungs.....	7	6	3	15	7	10	3	24	5	8	.....	20	8	1	9	18	77
106	Diarrhœal Diseases (under 2 years).....	.....	.....	7	20	1	5	30	34	8	50	37	173	10	8	6	30	263
106	Diarrhœal Diseases (2 years and over).....	.....	.....	2	.....	.....	.....	.....	22	3	10	6	40	4	1	1	6	67
111-114	Liver, Diseases of.....	5	5	3	10	8	6	8	1	.....	.....	.....	13	3	1	3	11	66
116	Peritonitis.....	2	1	2	5	.....	.....	.....	1	.....	.....	.....	.....	2	.....	.....	3	12
116	Appendicitis.....	2	1	2	5	.....	.....	.....	10	4	6	1	11	2	1	1	7	30
116	Sepatitis, Acute.....	1	.....	1	.....	.....	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	32
120	Sepatitis, Chronic.....	19	26	19	64	19	13	18	47	19	18	21	60	20	28	.....	77	247

TABLE IX. (Table XX Previous to 1898.)—CONCLUDED. DEATHS, 1903. *Season and Disease.*

Bertillon Numbers.	CAUSES OF DEATH.	January.	February.	March.	First Quarter.	April.	May.	June.	Second Quarter.	July.	August.	September.	Third Quarter.	October.	November.	December.	Fourth Quarter.	Whole Year.
134-140	Child Birth.....	4	1	2	7	4	3	1	8	5	1	1	6	2	1	4	7	28
140	Malformations.....	2	4	1	7	3	3	2	8	2	3	2	8	3	2	4	9	32
151	Prenature Birth.....	7	6	10	23	11	5	7	23	7	4	4	15	9	3	8	20	81
151	Congenital Debility.....	8	5	6	19	2	3	6	11	8	9	10	27	4	3	2	9	66
154	Senile Debility.....	8	4	5	17	3	6	2	11	3	1	2	6	4	3	7	13	47
155-163	Suicide.....	3	4	4	7	1	1	1	4	2	3	1	5	3	2	1	6	22
164-170 ^a	Accidents.....	16	10	17	43	15	20	13	48	10	21	16	47	16	17	10	43	181
except 169																		
170																		
and 170 ^b																		
176-3	Homicide.....			2	2		1		1					1	1	1	3	6
169	Stroke and Heat Prostration.....									2								2
170	Freezing.....			1	1													1
179	Not Specified.....	2	7	2	11	7	5		13	2	4	4	10	7		4	16	49
	Other Causes.....	66	55	37	158	45	38	45	128	50	40	47	137	46	36	59	141	564
	Totals.....	374	357	354	1,085	323	298	304	925	382	339	301	1,022	289	255	319	863	3,895

TABLE X. (TABLE XXI previous to 1898.)
Deaths from a number of principal causes for forty-eight years, 1856-1903.

Bertillon Numbers.	FORTY-EIGHT YEARS, 1856-1903.	AMERICAN PARENTAGE.		FOREIGN PARENTAGE.		MALES.		FEMALES.		Total Deaths.	Ratio per 100,000 of population.
		Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.		
1	Typhoid Fever.....	1,055	46.	1,200	46.	1,286	53.	1,069	40.	2,355	46.
5	Small Pox.....	51	2.	42	1.	69	2.	24	0.9	83	1.
6	Measles.....	265	11.	527	18.	411	17.	381	14.	792	15.
7	Scarlet Fever.....	1,172	51.	1,734	50.	1,414	58.	1,492	58.	2,906	57.
8	Whooping Cough.....	479	21.	653	23.	499	20.	633	24.	1,132	22.
9 ¹	Diphtheria.....	1,230	56.	1,504	54.	1,373	58.	1,361	52.	2,734	55.
9 ²	Croup.....	537	23.	799	28.	631	28.	655	24.	1,286	26.
13-14-105-106	Diarrheal Diseases.....	3,887	128.	6,319	228.	5,087	211.	4,959	190.	10,046	200.
18	Erysipelas.....	184	8.	214	7.	204	8.	194	7.	398	7.
27	Tubercle of Lungs.....	5,056	224.	8,708	312.	6,854	276.	7,110	270.	13,764	273.
38-45	Cancer.....	1,563	70.	1,446	51.	1,611	35.	2,180	83.	3,039	60.
47-48	Rheumatism.....	154	6.	217	7.	161	6.	210	7.	371	7.
55	Alcoholism.....	153	6.	450	16.	445	18.	198	6.	693	11.
60-61 ¹ -64 ¹	Diseases of Brain and other parts of Nervous System.....	1,537	68.	1,652	59.	1,665	69.	1,434	54.	3,099	61.
62-74 ¹ -74 ²	Apoplexy.....	1,807	80.	1,521	54.	1,503	62.	1,825	69.	3,328	66.
64 ¹	Paralysis.....	647	28.	351	12.	454	18.	544	20.	995	19.
66	(General Paralysis and other forms of Insanity.....	395	17.	194	6.	287	11.	303	11.	590	11.
71	Convulsions.....	862	38.	1,187	42.	1,105	45.	964	36.	2,069	41.
77-80	Heart, Diseases of.....	3,130	139.	3,231	116.	3,053	127.	3,318	126.	6,381	124.

* For 49 years, 1805-1903.

† For 40 years, 1868-1903.

TABLE X. (TABLE XXI previous to 1898.)—(CONCLUDED).
Deaths from a number of principal causes for forty-eight years, 1856-1903.

Bertillon Numbers.	FORTY-EIGHT YEARS, 1856-1903.	AMERICAN PARENTAGE.		FOREIGN PARENTAGE.		MALES.		FEMALES.		Total Deaths.	Rate per 100,000 of population.
		Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.		
81 ¹	Aneurism	41	1.	57	2.	68	2.	30	1.	98	1.
90-91	Bronchitis.....	1,091	48.	1,679	60.	1,294	53.	1,476	56.	2,770	56.
92-93-95	Pneumonia and Congestion of Lungs	3,553	158.	5,040	180.	4,507	187.	4,086	155.	8,593	170.
108 ¹	Hernia.....	78	3.	142	5.	89	4.	121	4.	220	4.
111-114	Liver, Diseases of	428	19.	720	25.	601	24.	547	20.	1,148	22.
116	Peritonitis	324	14.	362	12.	274	16.	412	15.	686	13.
119-121	Kidneys, Diseases of	1,603	71.	2,068	74.	1,972	81.	1,719	65.	3,691	73.
134-140	Child Birth	336	14.	648	23.	.....	.....	985	37.	985	19.
150	Malformations	319	14.	302	10.	382	15.	239	9.	621	12.
151-151 ¹	Premature Birth and Debility	1,112	45.	1,203	43.	1,198	49.	1,017	38.	2,215	43.
154	Old Age	1,753	77.	1,242	44.	994	41.	2,001	76.	2,996	59.
155-163	Suicides	224	9.	249	8.	389	14.	114	4.	473	9.
164-176 ¹	Accidents	1,143	50.	2,197	78.	2,512	104.	828	31.	3,340	66.
except 166 and 170 and 176 ¹											
169	Insolation.....	25	1.	119	4.	104	4.	40	1.	144	2.
179	Unknown.....	332	14.	620	22.	512	21.	440	16.	952	18.

NOTES ON THE CAUSES OF DEATH

DURING THE YEAR 1903.

These notes are in explanation of the facts given in tables VIII, IX, and X.

The percentage of deaths from the different causes has always been reckoned on the number of deaths from *known* causes, except in table X.

The number of deaths in Providence in 1903, was 3,895; of these there were 49 or 1.25 per cent., where no cause of death could be determined or recorded; the number from known causes, therefore, and on which all the percentages are reckoned was 3,846.

In the forty-nine years, 1855 to 1903, inclusive, there were 100,621 deaths in Providence; 981, or 0.97 per cent. of which no cause was given, the number of *known causes* being 99,640. In the 64 years, 1840 to 1903, inclusive, there were 112,775 deaths; of 1,953, or 1.73 per cent., the cause was not stated; the number of deaths from *known causes* in this period being 110,822.

In the report for 1900 the Bertillon system of classification was used in some of the tables. During that year this system was revised and the revised arrangement is used throughout the present report. This classification renders it impracticable to continue some of the tables found in previous reports under the heading "Notes on the Causes of Death." But wherever possible, the tables that have appeared in preceding reports, will be retained. The names

of the diseases are arranged according to the Bertillon system, and not alphabetically, as in previous reports.

1. *Fever, Typhoid.* The number of deaths from this cause in 1903, was 37, which was 1 more than in 1902.

In the twenty-five years previous to 1881, deaths were occasionally reported from "fever" and "bilious fever," and about 30 in all as "typhus fever." There was also, in 1869, 1 death reported as "intermittent fever," and 1 "malarial fever," and 1 from malarial fever in 1880. These were all included with typhoid fever. The 1 death from typhus fever in 1893 was not included with typhoid.

DEATHS FROM TYPHOID FEVER IN PROVIDENCE, FORTY-EIGHT YEARS, 1856-1903.

Sex, Parentage, Season, Age, Whole Number, and Ratio to Known Causes.

TYPHOID FEVER.		1856	1861	1866	1871	1876	1881																		Totals.
		1860	1865	1870	1875	1880	1885																		
Whole number.....	141	215	190	313	215	402	53	39	103	59	39	62	51	50	70	46	40	24	39	43	41	47	36	37	2,355
Percentage.....	2.97	3.89	3.43	3.74	2.18	3.63	2.25	1.49	3.96	2.37	1.36	2.37	1.73	1.60	2.44	1.51	1.37	0.86	1.31	1.36	1.12	1.38	1.07	0.96	2.38
SEX:																									
Males.....	73	120	100	160	99	208	30	19	53	41	24	35	35	26	45	29	29	15	23	24	24	31	20	23	1,286
Females.....	68	95	90	153	116	194	23	20	50	18	15	27	16	24	25	17	11	9	16	19	17	16	16	14	1,069
PARENTAGE:																									
American.....	85	131	104	166	118	160	21	16	32	21	15	21	17	15	21	21	13	8	12	15	13	11	10	9	1,055
Foreign.....	56	84	86	147	97	242	32	23	71	38	24	41	34	35	49	25	27	16	27	28	28	36	26	28	1,300
SEASON:																									
January.....	13	13	7	19	10	30	3	6	5	5	4	4	8	3	14	...	4	2	3	2	4	6	2	4	171
February.....	9	10	8	8	6	20	...	3	8	3	3	2	5	1	7	3	1	2	...	...	1	2	3	...	106
March.....	9	9	11	11	11	18	5	3	3	2	6	2	2	2	5	1	4	...	2	...	1	6	6	2	125
April.....	4	8	11	8	9	42	5	3	3	9	5	1	3	1	7	1	1	2	...	1	...	1	1	2	136
May.....	16	10	4	12	19	21	3	2	6	1	2	2	5	3	6	4	1	...	3	...	3	1	3	6	106
June.....	11	6	7	9	17	16	...	3	2	1	2	2	3	2	3	3	3	...	3	...	2	8	1	2	125
July.....	6	12	13	9	12	15	1	1	1	1	1	1	3	2	4	11	7	1	...	4	...	2	2	2	106
August.....	4	20	19	29	18	30	6	8	5	6	3	3	6	2	5	3	3	...	4	5	1	2	1	2	177
September.....	18	33	27	42	34	43	8	8	3	4	3	6	3	3	4	4	4	2	...	3	9	2	5	4	274
October.....	17	26	28	63	29	38	11	7	9	3	2	5	6	6	5	8	5	3	...	3	9	4	2	7	304
November.....	21	45	32	58	28	34	5	2	15	12	3	16	7	6	6	6	6	1	...	1	6	1	6	5	385
December.....	13	23	24	45	22	45	6	2	47	6	5	9	4	6	2	12	4	7	2	7	8	9	6	3	317
First quarter.....	31	52	26	58	27	68	8	12	8	16	13	11	10	6	26	4	9	4	9	3	10	14	7	6	402
Second quarter.....	31	54	22	59	25	79	8	4	10	12	9	6	15	7	17	8	5	2	7	6	11	3	6	10	371
Third quarter.....	38	65	58	90	64	76	15	12	14	11	7	15	9	19	14	8	10	12	11	16	6	11	7	11	676
Fourth quarter.....	51	94	64	100	73	177	22	11	71	21	10	20	17	18	13	26	10	16	13	19	10	19	10	10	1,006

DEATHS FROM TYPHOID FEVER IN PROVIDENCE, FORTY-EIGHT YEARS, 1856-1903.—(CONCLUDED.)

Sex, Parentage, Season, Age, Whole Number, and Ratio to Known Causes.

TYPHOID FEVER.	1856 1861		1866 1871		1876 1881		1886 1891		1896 1901		1906 1911		1916 1921		1926 1931		Totals.
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	
First four months.....	35	40	37	46	36	110	13	12	11	24	18	12	18	7	33	5	8
Second four months.....	37	48	42	59	66	72	10	13	13	10	8	14	13	22	20	11	8
Third four months.....	68	127	111	208	113	230	30	14	79	25	13	36	20	21	17	30	17
Age:																	1,540
Under 1 year.....	1	1	3	2	1	1	1	1	1	1	1	1	1	1	1	1	11
1 and under 2.....	4	1	10	4	2	4	1	1	1	1	1	1	1	1	1	1	23
2 ".....	9	7	10	9	5	11	3	1	3	1	1	1	1	1	1	1	65
5 ".....	5	10	17	19	18	20	4	1	1	1	1	1	1	1	1	1	143
10 ".....	5	15	10	23	15	35	5	4	4	3	4	4	4	4	4	4	178
15 ".....	5	23	10	23	15	35	5	4	4	3	4	4	4	4	4	4	178
20 ".....	21	31	30	54	32	65	7	8	10	10	4	7	8	5	15	4	348
25 ".....	23	51	54	86	74	137	13	13	20	18	23	13	22	23	21	16	741
30 ".....	23	31	30	54	32	65	7	8	10	10	4	7	8	5	15	4	348
35 ".....	21	36	22	47	27	69	4	8	14	13	5	12	6	8	9	7	369
40 ".....	18	13	16	27	16	22	4	3	4	4	1	2	3	4	4	3	191
45 ".....	13	17	10	28	13	19	6	3	2	1	1	1	1	1	1	1	144
50 ".....	5	12	7	13	12	3	2	1	2	1	1	1	1	1	1	1	90
55 ".....	1	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	44
60 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	9
65 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	9
70 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	9
75 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	9
80 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	9
85 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	9
90 and over.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	9

The next table shows the number and percentage of decedents from typhoid fever, in each division of age, for the year 1903, and also for the forty-eight years from 1856 to 1903, inclusive:

PERIODS ..	Under 1 year.	1-2.	2-5.	5-10.	10-15.	15-20.	20-30.	30-40.	40-50.	50-60.	60-70.	70-80.	80-90.	90 and over.	Total.
1903.															
Number...	1	....	....	6	4	3	8	10	1	3	1	....	....	....	37
Per cent...	2.70	....	....	16.22	10.81	8.10	21.62	27.03	2.70	8.10	2.70	....	....	....	100.00
1856-1903.															
Number...	11	23	65	143	176	348	741	369	191	144	90	44	9	1	2,335
Per cent...	0.47	0.98	2.76	6.07	7.47	14.78	31.47	15.67	8.11	6.11	3.82	1.87	0.38	0.04	100.00

DECEDENTS FROM TYPHOID FEVER, 48 YEARS, 1856-1903.

YEARS.	PARENTAGE.				SEX.				Total Deaths.	Ratio per 100,000 of Population.
	American.		Foreign.		Males.		Females.			
	Deaths.	Ratio per 100,000 of Population.	Deaths.	Ratio per 100,000 of Population.	Deaths.	Ratio per 100,000 of Population.	Deaths.	Ratio per 100,000 of Population.		
1856-60.....	85	59	56	54	73	62	68	52	141	56
1861-65. ...	131	87	84	73	120	97	95	67	215	81
1866-70.....	104	58	86	62	100	67	90	53	190	60
1871-75.....	166	74	147	70	160	77	153	68	313	72
1876-80.....	118	49	97	34	99	40	116	43	215	41
1881-85.....	160	64	242	76	208	77	194	65	402	71
1886-90.....	105	38	188	52	167	55	126	38	293	46
1891-95.....	95	33	184	43	170	50	109	29	279	39
1896-1900...	61	19	126	24	115	29	72	17	187	22
1901.....	11	16	36	32	31	35	16	17	47	26
1902.....	10	14	26	22	20	22	16	17	36	19
1903.....	9	13	28	24	23	25	14	14	37	19
48 years..	1,055	46	1,309	46	1,286	53	1,069	40	2,355	46

4. *Fever, Malarial.* In 1869, two deaths, and in 1880, one death, were reported as due to malarial fever. These were counted in with typhoid fever, but since 1880 the record of malarial fever has been kept separate from typhoid. Malarial disease originated in Providence in 1880 for the first time in fifty years.

The following table shows the death from all forms of malarial fever since 1881. The deaths for single years are given in report for 1894, page 76:

YEARS.	Males.	Females.	American.	Foreign.	Whole Number.	Ratio to Known Causes.
1881-1885.....	16	10	12	14	26	0.22
1886-1890.....	38	43	22	59	81	0.63
1891.....	1	5	1	5	6	0.23
1892.....	3	3	1	5	6	0.20
1893.....	1	5	2	4	6	0.19
1894.....	4	3	2	5	7	0.25
1895.....	6	2	3	5	8	0.29
1896.....	10	6	6	10	16	0.54
1897.....	7	9	2	14	16	0.58
1898.....	2	7	2	7	9	0.31
1899.....	3	6	2	7	9	0.29
1900.....	2	2	2	2	4	0.11
1901.....	1	1	1	1	2	0.06
1902.....	2	5	.....	7	7	0.21
1903.....	2	4	.....	6	6	0.15
23 years.....	98	111	58	151	209	0.32

5. *Small pox.* The following table gives the deaths from small pox for 48 years, 1856-1903.

Year.	SEX.		PARENTAGE.		Whole Number.	Ratio to Known Causes.
	Males.	Females.	American.	Foreign.		
1856.....	7.....	2.....	5.....	4.....	9.....	0.87
1857.....	0.....	0.....	0.....	0.....	0.....	
1858.....	0.....	0.....	0.....	0.....	0.....	
1859.....	2.....	3.....	5.....	0.....	5.....	0.57
1860.....	4.....	1.....	3.....	2.....	5.....	0.52
1861.....	0.....	0.....	0.....	0.....	0.....	
1862.....	2.....	2.....	1.....	3.....	4.....	0.45
1863.....	0.....	0.....	0.....	0.....	0.....	
1864.....	7.....	0.....	3.....	4.....	7.....	0.56
1865.....	9.....	2.....	8.....	3.....	11.....	0.93
1866.....	0.....	0.....	0.....	0.....	0.....	
1867.....	1.....	0.....	1.....	0.....	1.....	0.11
1868.....	1.....	0.....	1.....	0.....	1.....	0.09
1869.....	3.....	0.....	3.....	0.....	3.....	0.24
1870.....	0.....	2.....	0.....	2.....	2.....	0.16
1871.....	0.....	3.....	1.....	2.....	3.....	0.24
1872.....	9.....	4.....	9.....	4.....	13.....	0.82
1873.....	12.....	2.....	8.....	6.....	14.....	0.82
1874.....	0.....	0.....	0.....	0.....	0.....	
1875.....	1.....	0.....	0.....	1.....	1.....	0.05
1876 to 1882.....	0.....	0.....	0.....	0.....	0.....	
1883.....	1.....	0.....	1.....	0.....	1.....	0.04
1884 to 1891.....	0.....	0.....	0.....	0.....	0.....	
1892.....	2.....	1.....	0.....	3.....	3.....	0.10
1893.....	0.....	0.....	0.....	0.....	0.....	
1894.....	2.....	0.....	1.....	1.....	2.....	0.07
1895 to 1900.....	0.....	0.....	0.....	0.....	0.....	
1901.....	1.....	1.....	0.....	2.....	2.....	0.06
1902.....	5.....	1.....	1.....	5.....	6.....	0.18
1903.....	0.....	0.....	0.....	0.....	0.....	

6. *Measles.* There were 89 deaths from measles in 1903, or 83 more than in the preceding year.

This disease has always been very irregular in its appearance in this city, as may be seen from the following table, which shows the number of deaths caused by it in each year since 1855:

MEASLES.

Ratio per 100,000 of Population.

Year.	Deaths.	Rate.	Year.	Deaths.	Rate.
1855.....	1.....	2.09	1881.....	25.....	22.80
1856.....	1.....	2.05	1882.....	4.....	3.49
1857.....	2.....	4.04	1883.....	8.....	6.83
1858.....	40.....	8.08	1884.....	7.....	5.96
1859.....	0.....	0.00	1885.....	8.....	6.77
1860.....	0.....	0.00	1886.....	7.....	5.83
1861.....	6.....	11.84	1887.....	90.....	74.37
1862.....	1.....	1.91	1888.....	2.....	1.62
1863.....	16.....	30.17	1889.....	14.....	11.02
1864.....	7.....	13.00	1890.....	31.....	23.45
1865.....	7.....	12.52	1891.....	4.....	2.96
1866.....	9.....	16.15	1892.....	10.....	7.24
1867.....	0.....	0.00	1893.....	63.....	45.00
1868.....	4.....	6.23	1894.....	5.....	3.49
1869.....	6.....	9.01	1895.....	40.....	27.49
1870.....	16.....	23.22	1896.....	19.....	12.66
1871.....	1.....	1.38	1897.....	18.....	11.68
1872.....	7.....	9.31	1898.....	3.....	1.95
1873.....	28.....	35.79	1899.....	27.....	16.07
1874.....	4.....	4.14	1900.....	97.....	55.24
1875.....	0.....	0.00	1901.....	3.....	1.68
1876.....	0.....	0.00	1902.....	6.....	3.31
1877.....	2.....	1.99	1903.....	89.....	48.10
1878.....	50.....	48.88			
1879.....	0.....	0.00	49 years.....	791.....	15.62
1880.....	3.....	2.86			

7. DEATHS FROM SCARLET FEVER IN PROVIDENCE, FORTY-NINE YEARS, 1855-1903.

Sex, Parentage, Season, Whole Number, and Ratio to Known Causes.

SCARLET FEVER.	1855 to 1860	1861 to 1866	1867 to 1872	1873 to 1878	1879 to 1884	1885 to 1890	1891 to 1896	1897 to 1902	1903 to 1908	Total.
Whole number...	42	310	324	236	533	599	45	18	15	2,906
Percentage.....	4.37	6.52	5.86	4.26	6.36	6.09	2.11	0.81	0.68	2.91
SEX:										
Males.....	22	153	154	106	243	302	27	12	7	1,414
Females.....	20	157	170	130	270	297	18	6	8	1,492
PARENTAGE:										
American.....	19	172	132	90	205	223	17	7	6	1,172
Foreign.....	23	138	192	146	328	376	28	11	9	1,734
SEASON:										
January.....	48	27	51	59	72	6	2	3	2	348
February.....	39	31	28	66	56	8	3	1	1	304
March.....	1	44	29	26	42	46	4	1	1	265
April.....	5	46	25	17	46	44	7	1	2	289
May.....	4	38	36	13	49	46	8	3	4	247
June.....	2	25	34	12	58	29	4	2	1	217
July.....	1	18	25	7	29	29	4	1	1	154
August.....	2	7	12	16	23	27	1	1	2	131
September.....	8	11	15	32	29	1	1	2	3	143
October.....	2	9	15	12	32	66	1	1	2	226
November.....	13	9	38	12	40	68	2	1	1	248
December.....	12	19	41	27	57	87	1	1	1	329

DECEDENTS FROM SCARLET FEVER, 49 YEARS, 1855-1903.

YEARS.	PARENTAGE.				SEX.				Total Deaths. Ratio per 100,000 of Population.	
	American.		Foreign.		Males.		Females.			
	Deaths.	Ratio per 100,000 of Population.	Deaths.	Ratio per 100,000 of Population.	Deaths.	Ratio per 100,000 of Population.	Deaths.	Ratio per 100,000 of Population.		
1855-60.....	191	111	161	130	175	124	177	113	352	119
1861-65.....	132	87	192	167	154	124	170	120	324	122
1866-70.....	90	50	146	105	106	71	130	77	236	74
1871-75.....	205	91	328	157	263	127	270	120	533	128
1876-80.....	223	94	376	134	302	122	297	110	599	116
1881-85.....	69	27	105	33	82	30	92	31	174	30
1886-90.....	110	40	186	51	134	44	162	49	296	46
1891-95.....	107	37	164	39	132	39	139	38	271	38
1896-1900...	30	9	48	9	41	10	37	8	78	9
1901.....	3	4	6	5	4	4	5	5	9	5
1902.....	2	4	7	5	5	5	4	4	9	4
1903.....	10	14	15	12	16	17	9	9	25	13
49 years..	1,172	51	1,734	61	1,414	58	1,492	56	2,906	57

8. *Whooping Cough.* Whooping Cough caused 77 deaths in 1903. The deaths in previous years since 1855 are shown in the following table:

WHOOPIING COUGH.

Ratio per 100,000 of Population.

Year.	Deaths.	Rate.	Year.	Deaths.	Rate.
1855.....	3.....	6.27	1881.....	40.....	36.49
1856.....	10.....	20.52	1882.....	40.....	34.97
1857.....	2.....	4.04	1883.....	4.....	3.41
1858.....	7.....	14.15	1884.....	28.....	23.82
1859.....	22.....	43.91	1885.....	24.....	20.32
1860.....	19.....	37.50	1886.....	23.....	19.16
1861.....	25.....	49.34	1887.....	12.....	9.91
1862.....	3.....	5.74	1888.....	28.....	22.76
1863.....	6.....	11.31	1889.....	44.....	34.64
1864.....	10.....	18.58	1890.....	30.....	22.70
1865.....	31.....	56.78	1891.....	53.....	39.25
1866.....	8.....	14.36	1892.....	8.....	5.79
1867.....	2.....	3.51	1893.....	11.....	7.85
1868.....	13.....	20.26	1894.....	53.....	37.06
1869.....	16.....	24.05	1895.....	27.....	18.56
1870.....	24.....	34.83	1896.....	24.....	16.00
1871.....	10.....	13.88	1897.....	16.....	10.38
1872.....	10.....	13.31	1898.....	59.....	36.41
1873.....	18.....	23.01	1899.....	47.....	27.97
1874.....	33.....	34.21	1900.....	45.....	25.62
1875.....	8.....	7.94	1901.....	13.....	7.30
1876.....	35.....	34.47	1902.....	29.....	16.02
1877.....	16.....	15.84	1903.....	77.....	41.62
1878.....	43.....	42.03			
1879.....	15.....	14.48			
1880.....	11.....	10.49			
			49 years.....	1,132.....	22.48

DEATHS FROM DIPHTHERIA IN PROVIDENCE, FORTY-SIX YEARS, 1858-1903.

Ser. Parentage, Season, Whole Number, and Ratio to Known Causes.

	1858	1861	1866	1871	1876		1881	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	Totals.		
DIPHTHERIA.																													
Whole number..	47	138	44	105	820	116	48	54	58	37	98	109	98	97	94	48	39	46	46	79	125	78	30	33	43	67	63	74,2734	
Percentage,....	1.66	2.50	0.79	1.25	8.33	5.43	2.15	2.33	2.60	1.71	4.17	4.18	3.77	3.90	3.29	1.83	1.32	1.74	1.60	2.58	4.27	2.79	1.03	1.05	1.17	1.96	1.87	1,922,882	
SEX:																													
Males.....	23	66	21	52	413	65	20	30	30	18	46	53	48	44	51	24	20	24	26	45	72	41	16	12	24	35	26	38,1373	
Females.....	24	72	23	53	407	51	28	24	28	19	52	56	50	53	43	24	19	22	20	34	53	37	14	21	19	32	37	36,1361	
PARENTAGE:																													
American.....	24	93	17	62	366	59	26	27	22	16	48	31	48	42	47	16	12	17	21	27	43	41	11	15	18	26	24	31,2230	
Foreign.....	23	45	27	43	454	57	22	27	36	21	50	78	50	55	47	32	27	29	25	52	82	37	19	18	25	41	39	43,1504	
Season:																													
January.....	13	6	12	77	7	7	7	6	3	6	4	11	9	10	17	4	1	2	5	6	10	8	4	2	6	8	9	5,258	
February.....	2	13	5	12	45	7	3	3	5	3	7	8	6	7	15	4	5	2	4	1	16	7	6	2	2	5	7	2,194	
March.....	3	16	1	12	58	8	4	4	6	1	5	2	14	10	7	6	4	4	6	2	17	10	3	3	3	6	5	8,228	
April.....	1	7	4	7	59	15	3	...	1	1	8	7	5	5	9	3	3	5	4	2	11	6	2	3	4	3	7	4,189	
May.....	10	1	4	57	11	1	6	4	2	6	10	6	14	7	6	4	4	3	6	4	12	9	2	5	2	5	1	6,204	
June.....	6	...	15	47	2	2	8	1	...	8	10	4	4	4	4	4	3	4	7	7	8	7	2	2	1	9	2	7,176	
July.....	2	5	3	29	7	5	2	2	2	4	2	4	8	8	6	4	3	2	...	4	9	4	...	1	1	4	3	12,142	
August.....	4	4	1	1	39	11	1	3	1	3	8	9	3	5	6	2	1	2	...	6	4	5	1	1	1	6	4	2	136
September.....	4	11	4	6	73	12	1	8	2	3	14	15	4	9	6	4	2	4	2	9	9	1	4	...	2	3	8	7	227
October.....	11	13	6	10	135	14	1	8	5	3	15	13	12	8	7	6	4	7	3	10	16	4	4	4	3	6	5	3,336	
November.....	10	21	4	10	118	16	7	2	13	3	7	12	9	6	3	5	4	3	5	13	16	11	...	2	8	8	6	8,330	
December.....	6	19	9	9	84	6	13	4	15	8	14	8	18	11	5	1	5	6	4	15	7	6	...	9	10	4	6	10,314	

DECEDENTS FROM DIPHTHERIA, 46 YEARS, 1858-1903.

YEARS.	PARENTAGE.				SEX.				Total Deaths. Ratio per 100,000 of population.	
	American.		Foreign.		Males.		Females.			
	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.		
1858-60.....	24	27	23	36	23	32	24	30	47	31
1861-65.....	93	61	45	39	66	53	72	50	138	52
1866-70.....	17	9	27	19	21	14	23	13	44	13
1871-75.....	62	27	43	20	52	25	53	23	105	24
1876-80.....	366	154	454	162	413	167	407	151	820	158
1881-85.....	150	60	163	51	153	57	160	53	313	56
1886-90.....	216	79	230	77	242	79	254	76	496	78
1891-95.....	93	32	165	39	139	41	119	32	258	36
1896-1900..	128	41	181	35	165	41	144	34	309	37
1901.....	26	38	41	36	35	40	32	34	67	37
1902.....	24	35	39	34	26	29	37	39	63	34
1903.....	31	44	43	37	38	42	36	37	74	39
46 years..	1,230	56	1,504	54	1,373	58	1,361	52	2,734	55

The following table illustrates the subject of season in connection with the three important causes of death, diphtheria, scarlet fever, and croup; showing the number and percentage of deaths in Providence, from each cause, in each month and quarter of the year:

MONTHS.	DIPHTHERIA. 1866-1903. Forty-six years.		SCARLET FEVER. 1866-1903. Forty-nine years.		CROUP. 1856-1903. Forty-eight years.	
	Number of Deaths.	Per cent.	Number of Deaths.	Per cent.	Number of Deaths.	Per cent.
January.....	258	9.44	348	11.96	181	13.55
February.....	194	7.09	304	10.46	143	10.70
March.....	228	8.34	265	9.12	144	10.78
1st quarter.....	680	24.87	917	31.56	468	35.03
April.....	189	6.91	269	9.25	104	7.79
May.....	204	7.46	267	9.19	72	5.39
June.....	176	6.44	217	7.47	46	3.44
2d quarter.....	569	20.81	753	25.91	222	16.62
July.....	142	5.19	154	5.30	45	3.37
August.....	136	4.98	131	4.51	22	1.65
September.....	227	8.30	148	5.09	73	5.46
3d quarter.....	505	18.47	433	14.90	140	10.48
October.....	336	12.29	226	7.78	147	11.00
November.....	330	12.07	248	8.53	190	14.22
December.....	314	11.49	329	11.32	169	12.65
4th quarter.....	980	35.85	803	27.63	506	37.67
Totals.....	2,734	100.00	2,906	100.00	1,336	100.00

9-2. *Croup* caused 11 deaths in 1903, or 5 more than in 1902. Various facts concerning deaths from croup for 48 years are given in the following table:

DEATHS FROM CROUP IN PROVIDENCE, FORTY-EIGHT YEARS, 1856-1903.
Sex, Parentage, Season: Whole Number and Ratio to Known Causes.

CROUP.	1856 to 1860	1861 to 1865	1866 to 1870	1871 to 1875	1876 to 1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	Totals.
Whole number.	123	162	99	168	215	49	32	35	33	28	32	39	27	33	31	16	34	28	6	25	24	13	11	11	25	20	6	11	1,386
Percentage.....	2.59	2.86	1.78	2.00	2.18	2.30	1.43	1.51	1.48	1.30	1.36	1.49	1.04	1.33	1.08	0.61	1.15	0.90	0.21	0.81	0.82	0.47	0.37	0.35	0.68	0.59	0.18	0.28	1.35
SEX:																													
Males.....	63	81	51	87	103	24	14	17	16	16	15	18	14	17	20	12	20	17	5	12	12	9	8	3	12	10	1	4	681
Females.....	60	81	48	81	112	25	18	18	17	12	17	21	13	16	11	4	14	11	1	13	12	4	3	8	13	10	5	7	665
PARENTAGE:																													
American....	52	63	45	68	88	17	14	13	13	13	13	14	14	10	12	4	19	6	2	12	10	8	5	3	12	6	1	2	537
Foreign.....	71	99	54	102	127	32	18	22	20	15	19	25	13	23	19	12	15	22	4	13	14	6	6	8	13	14	5	9	799
SEASON:																													
January.....	20	21	12	23	28	7	5	7	7	7	3	3	7	2	3	1	3	1	1	4	4	6	1	1	5	1	1	2	181
February.....	11	22	15	21	17	6	1	2	4	2	3	3	6	7	3	3	7	6	3	3	4	3	1	2	3	1	1	1	143
March.....	15	18	9	23	19	2	4	3	4	2	3	2	6	7	3	3	7	1	1	2	4	1	1	2	4	1	1	1	144
April.....	12	17	6	9	17	2	4	1	2	3	1	3	3	3	3	2	1	4	1	1	2	2	1	1	3	3	1	1	104
May.....	10	12	6	6	6	3	2	1	2	3	2	2	3	6	2	2	1	1	1	1	2	1	1	1	2	1	1	1	72
June.....	6	12	1	3	3	2	1	1	1	1	1	1	1	1	2	1	1	1	1	1	2	1	1	2	1	1	1	1	46
July.....	8	4	4	6	3	2	1	1	3	1	1	1	1	1	2	1	1	1	1	1	1	1	1	2	1	1	1	1	46
August.....	4	3	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	22
September....	4	9	6	10	4	4	3	1	1	1	3	3	2	2	2	1	1	1	1	1	1	2	1	1	1	3	1	1	73
October.....	11	14	11	11	26	6	5	6	4	3	4	4	3	2	6	6	4	8	1	1	2	2	3	3	3	3	3	2	147
November....	10	11	13	31	43	7	8	6	2	3	7	7	4	3	2	2	6	4	1	4	2	3	2	2	3	3	3	2	180
December....	12	19	16				3	4	3	8	4	1	7	1	3	3	4	2	2	1	4	4	1	2	1	3	2	3	169

10. *Influenza.* The following shows the number and the seasonal distribution of deaths from epidemic influenza for the last fourteen years:

	January.	February.	March.	April.	May.	June.	July.	August.	October.	November.	December.	Total.
1890.....	54	8	1	1	.....	.....	.....	.....	.....	.....	.....	64
1891.....	1	.....	1	5	5	4	.....	1	.....	.....	18	35
1892.....	34	11	3	5	2	1	.....	.....	.....	1	2	59
1893.....	2	.....	.....	6	5	.....	.....	.....	.....	.....	12	35
1894.....	57	13	3	1	3	.....	1	.....	.....	.....	.....	78
1895.....	1	6	20	10	1	1	.....	.....	.....	1	.....	40
1896.....	.....	1	2	.....	1	.....	.....	.....	.....	.....	.....	4
1897.....	13	45	8	.....	2	.....	.....	.....	.....	.....	1	69
1898.....	1	.....	3	2	3	2	1	.....	.....	.....	12	24
1899.....	39	22	13	5	3	.....	.....	.....	.....	2	1	85
1900.....	1	4	27	57	9	1	.....	1	1	.....	2	103
1901.....	24	25	8	3	3	.....	.....	.....	.....	1	.....	64
1902.....	1	1	2	3	.....	.....	.....	.....	.....	.....	1	8
1903.....	6	13	31	10	2	1	.....	.....	.....	.....	3	66
Total.....	234	149	122	108	39	10	2	2	1	5	62	734

The age distribution for the fourteen years was as follows :

	Under 1 year.	1 year.	2-5.	5-10.	10-15.	15-20.	20-30.	30-40.	40-50.	50-60.	60-70.	70-80.	80-90.	90-100.	Total.
1880.....	2	2	.....	.....	4	9	12	5	6	7	11	4	2	.....	64
1881.....	7	2	1	.....	.....	.....	1	2	1	1	8	6	6	.....	35
1882.....	10	1	1	1	2	.....	1	2	2	7	13	9	10	.....	59
1883.....	2	1	1	.....	1	1	2	.....	2	4	6	7	8	.....	35
1884.....	2	2	2	1	1	2	6	3	7	10	19	16	7	.....	78
1885.....	9	1	3	.....	.....	.....	5	4	.....	4	4	6	4	.....	40
1886.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	1	.....	4
1887.....	8	.....	.....	.....	3	1	2	4	5	16	9	15	6	.....	69
1888.....	2	1	.....	.....	1	.....	2	4	4	5	2	2	1	.....	24
1889.....	10	3	4	1	.....	3	8	8	5	7	7	23	5	1	85
1900.....	2	2	3	.....	.....	1	9	5	9	8	20	4	20	3	103
1901.....	6	.....	.....	.....	.....	2	1	3	6	9	11	17	9	.....	64
1902.....	3	1	.....	.....	.....	.....	.....	.....	.....	1	.....	3	.....	.....	8
1903.....	5	5	.....	2	1	.....	3	2	9	6	11	11	10	1	66

14. *Dysentery.* See Diarrheal Diseases, 105, etc.

20. *Septicæmia.* There were 15 deaths from septicæmia in 1903, of which the causes, so far as specified, were as follows: Infection around umbilicus; gangrene of scrotum and testicles; needle in arm; infection through penis; infective olecranon bursitis; senility; circumcision; probably syphilitic; general; septic arm; infected foot (cause unknown), one each; septic hand, two.

27. *Phthisis or Consumption.* There were 371 deaths from this cause in 1903; 9.65 per cent. of all deaths from known causes and 200.54 per each 100,000 living.

During the 15 years, 1840 to 1854, the average annual rate of mortality from phthisis was one death in each 209.9 inhabitants, or 476 to each 100,000. During the forty-eight years, 1856 to 1903, the deaths from phthisis were as follows:

DECEDENTS FROM PHTHISIS, FORTY-EIGHT YEARS, 1856-1903.

YEARS.	PARENTAGE.				SEX.					
	American.		Foreign.		Males.		Females.			
	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Total Deaths.	Ratio per 100,000 of population.
1856-1860.....	525	364	405	390	379	323	551	422	930	375
1861-1865.....	495	328	480	418	477	386	498	351	975	367
1866-1870.....	532	299	520	376	490	330	562	334	1,052	333
1871-1875.....	553	247	682	328	568	274	667	297	1,235	286
1876-1880.....	570	241	928	332	676	273	822	305	1,498	290
1881-1885.....	573	230	1,177	372	824	308	926	312	1,750	310
1886-1890.....	529	194	1,206	334	863	285	872	264	1,735	274
1891-1895.....	486	172	1,202	287	846	250	842	231	1,688	240
1896-1900.....	481	154	1,291	254	927	234	845	200	1,772	216
1901.....	100	149	284	255	203	235	181	197	384	215
1902.....	108	159	266	235	194	221	180	192	374	206
1903.....	104	149	267	230	207	230	164	171	371	200
48 years.....	5,066	224	8,708	312	6,654	276	7,110	270	13,764	273

DEATHS FROM PHTHISIS IN PROVIDENCE, FORTY-EIGHT YEARS, 1856-1903.

Sex, Parentage, Season, Age, Whole Number and Ratio to Known Causes.

PHTHISIS.	1856 1860.	1861 1865.	1866 1870.	1871 1875.	1876 1880.	1881 1885.	1886 1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	Totals.
Whole Number.....	900	875	1,062	1,235	1,498	1,750	1,735	344	333	325	331	355	350	321	325	303	408	384	374	371	13,764
Percentage.....	19.57	17.64	18.70	14.74	15.23	16.80	13.44	13.15	11.29	10.40	11.03	11.63	11.96	11.60	11.18	11.68	11.16	11.25	11.11	9.65	13.94
SEX:																					
Males.....	379	477	490	568	676	824	863	188	165	162	164	167	180	173	178	178	218	203	194	207	6,654
Females.....	551	498	562	667	822	926	872	156	168	163	169	188	170	148	147	190	190	181	180	164	7,110
PARENTAGE:																					
American.....	525	495	532	553	570	573	529	98	93	100	96	109	91	92	87	99	112	100	108	104	5,056
Foreign.....	405	480	530	682	928	1,177	1,206	246	240	225	245	246	259	229	238	209	296	284	266	267	8,708
SEASON:																					
January.....	92	77	93	116	128	182	186	23	34	26	32	40	24	35	23	30	43	33	31	34	1,286
February.....	77	81	85	110	107	130	138	39	28	27	28	30	31	34	25	28	33	33	32	30	1,130
March.....	91	84	93	101	137	146	157	13	35	22	31	34	34	22	33	46	32	40	29	43	1,526
April.....	68	86	94	117	123	176	161	24	36	32	22	27	29	26	28	38	45	38	37	39	1,234
May.....	77	61	78	101	141	164	169	29	36	38	33	32	32	29	28	34	36	32	48	32	1,199
June.....	70	80	96	99	108	145	139	35	29	30	24	25	23	21	23	18	29	29	35	28	1,068
July.....	64	94	78	98	122	132	131	18	25	29	27	28	31	22	28	21	32	23	23	23	1,042
August.....	60	71	89	84	121	139	146	25	32	25	33	30	27	30	30	27	39	23	25	26	1,062
September.....	66	84	82	96	126	122	129	28	30	26	25	29	21	32	24	26	34	22	31	26	1,060
October.....	83	87	91	101	117	134	162	30	21	23	26	22	25	24	19	21	30	28	27	34	1,095
November.....	94	86	94	109	120	132	114	25	32	23	25	28	28	22	35	31	29	31	29	31	1,124
December.....	88	94	77	103	139	148	133	33	19	26	24	26	41	24	32	40	36	37	37	30	1,186

DEATHS FROM PHTHISIS IN PROVIDENCE, FORTY-EIGHT YEARS, 1856-1903.—CONCLUDED.

Sex, Parentage, Season, Age, Whole Number and Ratio to Known Causes.

PHTHISIS.	1856 to 1860.		1861 to 1865.		1866 to 1870.		1871 to 1875.		1876 to 1880.		1881 to 1885.		1886 to 1890.		1891 to 1895.		1896 to 1899.		1900 to 1901.		1902 to 1903.		Totals.	
	1856 to 1860.	1861 to 1865.	1866 to 1870.	1871 to 1875.	1876 to 1880.	1881 to 1885.	1886 to 1890.	1891 to 1895.	1896 to 1899.	1900 to 1901.	1902 to 1903.	1896 to 1899.	1900 to 1901.	1902 to 1903.	1896 to 1899.	1900 to 1901.	1902 to 1903.	1896 to 1899.	1900 to 1901.	1902 to 1903.	1896 to 1899.	1900 to 1901.		1902 to 1903.
First quarter.....	260	242	271	327	372	458	451	97	84	94	92	110	83	91	82	104	111	106	106	99	110	99	107	3,674
Second quarter.....	215	227	270	317	372	485	449	88	90	80	79	84	84	76	77	91	109	99	99	109	99	110	99	3,591
Third quarter.....	190	239	249	278	369	383	406	71	87	79	85	79	85	79	84	82	81	94	77	79	77	79	77	3,184
Fourth quarter.....	265	267	262	313	385	414	399	88	72	72	75	76	94	70	84	92	94	102	102	83	88	83	88	3,405
First 4 months.....	328	328	365	444	485	634	632	121	119	126	114	137	122	117	108	143	156	144	129	146	129	146	146	4,908
Second 4 ".....	271	296	343	382	492	590	575	107	112	102	117	113	102	102	139	107	124	116	121	109	121	109	121	4,391
Third 4 ".....	331	331	344	409	511	536	528	116	102	97	100	105	115	102	108	118	128	124	124	116	124	116	116	4,465
AGE:																								
Under 1 year.....	13	14	16	11	14	27	24	8	4	4	1	5	9	5	6	8	8	7	8	7	3	7	3	194
1 and under 2.....	12	14	12	13	11	16	14	14	3	2	1	2	3	4	1	2	4	3	6	4	3	5	3	134
2 ".....	9	20	10	11	11	12	14	3	1	3	3	4	4	4	2	1	6	4	3	5	5	5	5	119
3 ".....	5	10	10	11	16	13	14	4	3	3	2	4	4	4	2	4	2	2	2	1	1	1	1	244
4 ".....	8	13	12	9	16	13	14	6	3	3	2	4	5	1	5	4	8	3	7	5	5	4	4	244
5 ".....	15	20	22	21	34	22	31	6	7	6	4	5	1	1	3	3	26	30	33	35	10	10	10	1,245
6 ".....	30	30	34	37	50	34	38	34	33	29	29	34	31	35	26	30	36	33	35	10	10	10	10	1,245
7 ".....	254	265	344	387	506	580	541	106	99	118	127	128	105	120	108	125	128	100	113	108	102	108	102	4,368
8 ".....	202	223	304	363	491	590	541	81	85	86	84	87	80	79	72	108	83	83	108	102	108	102	108	4,368
9 ".....	30	40	30	40	50	39	41	81	85	86	84	87	80	79	72	108	83	83	108	102	108	102	108	4,368
10 ".....	115	153	151	184	191	215	224	50	49	54	64	40	38	42	48	60	63	63	53	53	52	52	52	1,595
11 ".....	98	72	101	117	129	146	146	28	36	29	28	27	23	24	30	33	42	40	30	37	44	44	44	1,219
12 ".....	62	60	70	64	85	104	105	101	13	12	10	14	7	20	18	12	10	18	14	19	14	19	14	1,219
13 ".....	31	18	21	29	40	46	32	5	1	6	4	1	2	5	5	5	6	8	6	6	4	4	4	285
14 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
15 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
16 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
17 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
18 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
19 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
20 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
21 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
22 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
23 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
24 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
25 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
26 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
27 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
28 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
29 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
30 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
31 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
32 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
33 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
34 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
35 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
36 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
37 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
38 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
39 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
40 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
41 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
42 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
43 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
44 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
45 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
46 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
47 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
48 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
49 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
50 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
51 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
52 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
53 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
54 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
55 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
56 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
57 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
58 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
59 ".....	30	30	31	3	2	8	16	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	80
60 ".....	30	30	31	3	2	8	16	1	1	1	1	1												

26-34. (except 27.) *Tubercular Diseases.* There were 115 deaths from various tubercular diseases in 1903. These together with the 371 deaths from phthisis make a total of 486 deaths from tubercular disease, or 262 per 100,000 of the population.

36. *Syphilis.* The following table gives the deaths from syphilis and the number of these in which the disease was specified as congenital, for each year from 1856-1903:

	Total Congenital.		Total Congenital.		Total Congenital.		Total Congenital.
1856.....	2... 0	1868.....	3... 3	1880.....	5... 2	1892.....	8... 5
1857.....	0... 0	1869.....	0... 0	1881.....	3... 1	1893.....	8... 3
1858.....	3... 3	1870.....	5... 4	1882.....	9... 7	1894.....	5... 3
1859.....	3... 3	1871.....	3... 2	1883.....	10... 7	1895.....	5... 2
1860.....	0... 0	1872.....	7... 2	1884.....	6... 4	1896.....	6... 3
1861.....	1... 1	1873.....	3... 2	1885.....	4... 2	1897.....	10... 9
1862.....	2... 1	1874.....	3... 2	1886.....	7... 4	1898.....	7... 7
1863.....	0... 0	1875.....	8... 4	1887.....	5... 2	1899.....	8... 6
1864.....	2... 2	1876.....	7... 3	1888.....	5... 4	1900.....	11... 10
1865.....	2... 0	1877.....	8... 3	1889.....	8... 6	1901.....	10... 8
1866.....	4... 3	1878.....	1... 1	1890.....	6... 4	1902.....	8... 7
1867.....	4... 4	1879.....	7... 7	1891.....	5... 3	1903.....	13... 10
						Totals...	250... 169

39-45. *Cancer.* There were 151 deaths from cancer in 1903, which was 5 less than in 1902. Of these, 131 are specified in Table VIII in different classes. The other 20 were located as follows: Bladder, 3; abdominal and lung, 2 each; pelvis, pancreas, kidney, leg, pleura, groin, lip, gall bladder, face and orbit, mediastinal, osteo-sarcoma of upper jaw, and general, 1 each; of one the location was not specified.

The following table shows the sex, parentage, whole number, and ratio per 100,000 of the population, and percentage of total deaths of the decedents from cancer, by periods of five years, from 1856 to 1900, inclusive, and for each year since 1900.

DECEDENTS FROM CANCER, 48 YEARS, 1856-1903.

YEARS.	PARENTAGE.				SEX.				Total Deaths.		Ratio per 100,000 of population. Percentage of Deaths from known causes.	
	American.		Foreign.		Males.		Females.					
	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.				
1856-60...	56	38	25	24	20	17	61	46	81	32	1.70	
1861-65...	80	53	30	26	31	25	79	55	110	41	1.39	
1866-70...	100	56	31	22	36	24	95	56	131	41	2.36	
1871-75...	128	57	78	37	54	25	152	67	206	47	2.45	
1876-80...	161	68	140	50	84	34	217	80	301	56	3.06	
1881-85...	211	84	148	46	92	34	267	90	359	63	3.24	
1886-90...	209	76	190	52	110	36	289	87	399	63	3.09	
1891-95...	222	78	205	48	117	34	310	85	427	60	2.92	
1896-1900...	247	79	328	64	176	44	399	94	575	70	3.72	
1901.....	58	86	85	76	42	48	101	110	143	80	4.18	
1902.....	70	103	86	76	51	58	105	112	156	86	4.63	
1903.....	51	73	100	86	46	51	105	110	151	81	3.92	
48 years..	1,583	70	1,446	51	859	35	2,190	83	3,039	60	3.07	

Full particulars for each year may be found in the report for 1888, page 55.

46. *Other Tumors.* There was but 1 death reported in this class in 1903. This was an abdominal tumor. See also 39-45, and 129 and 131.

61-2. *Meningitis, Cerebro-Spinal.* The first deaths reported from this cause in Providence were in 1864; since that date the number of deaths from it each year has been as follows:

1864.....	2	1878.....	7	1892.....	9
1865.....	2	1879.....	7	1893.....	8
1866.....	1	1880.....	4	1894.....	7
1867.....	0	1881.....	11	1895.....	7
1868.....	1	1882.....	14	1896.....	7
1869.....	0	1883.....	15	1897.....	7
1870.....	0	1884.....	6	1898.....	34
1871.....	12	1885.....	3	1899.....	14
1872.....	10	1886.....	2	1900.....	14
1873.....	39	1887.....	7	1901.....	14
1874.....	10	1888.....	5	1902.....	10
1875.....	6	1889.....	3	1903.....	11
1876.....	4	1890.....	3	—	—
1877.....	7	1891.....	5	40 years.....	328

The number of decedents from cerebro-spinal meningitis, in each division of age, and according to sex and parentage, is given in the following table for the 40 years, 1864 to 1903:

No.	AGES.											Males.	Females.	American.	Foreign.	Total.
	Under 1 year.	1-2.	2-5.	5-10.	10-15.	15-20.	20-30.	30-40.	40-50.	50-60.	60-70.	70-80.				
	56	29	59	55	27	34	28	20	14	4	1	1	188	140	141	187 328

62, 63. *Diseases of the Spinal Cord.* There were 4 deaths from locomotor ataxia, and 7 from other diseases of

the spinal cord, as follows: Acute ascending paralysis, 2; and 1 each from spinal apoplexy, transverse myelitis, spinal sclerosis, and disseminated sclerosis; of one the nature was not specified.

64-1. *Apoplexy*. This was given as the cause of 141 deaths in 1903, 23 less than in 1902.

The following table gives the deaths from this disease for periods of five years from 1856 to 1900; for each year since 1900, and for the whole period of 48 years. It will be seen from this table that there has been a continual increase in this disease during the past 48 years. There has been practically no difference in the incidence of apoplexy upon males and females, but there is a very great difference as regards persons of American and foreign parentage:

DECEDENTS FROM APOPLEXY, 48 YEARS, 1856-1903.

YEARS.	PARENTAGE.				SEX.				Total Deaths.	Ratio per 100,000 of population.
	American.		Foreign.		Males.		Females.			
	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.		
1856-60.....	63	43	24	23	44	37	43	33	87	35
1861-65.....	63	41	23	20	40	32	46	32	86	32
1866-70.....	103	57	31	22	60	40	74	44	134	42
1871-75.....	124	55	53	25	87	42	90	40	177	41
1876-80.....	153	64	87	31	123	49	117	43	240	46
1881-85.....	241	97	153	48	176	65	218	73	394	69
1886-90.....	256	94	235	65	228	75	263	79	491	77
1891-95.....	283	100	293	69	278	82	298	81	576	82
1896-1900...	325	104	364	71	278	70	411	97	689	84
1901.....	68	101	81	72	68	78	81	88	149	83
1902.....	72	106	92	81	74	84	90	96	164	90
1903.....	56	80	85	73	47	52	94	98	141	76
48 years..	1,807	80	1,521	54	1,503	62	1,825	69	3,328	66

66. *Paralysis.* There were 16 deaths from this cause in 1903, 1 more than in 1902. Of these 4 were not definitely named; the others were: 5 from hemiplegia; 2 paralysis agitans; 2 senile; 1 cerebral; 1 paresis, and 1 paralysis with arterio sclerosis.

The following table shows the number of deaths and ratio per 100,000 of the population by periods of five years from 1856 to 1900, and in each year since 1900 from paralysis and apoplexy and from the two diseases combined:

YEARS.	PARALYSIS.		APOPLEXY.		PARALYSIS. AND APOPLEXY.	
	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.
1856-1860.....	31	12	87	35	118	47
1861-1865.....	58	21	86	32	144	54
1866-1870.....	90	28	134	42	224	70
1871-1875.....	127	29	177	41	304	70
1876-1880.....	132	25	240	46	372	72
1881-1885.....	157	27	394	69	551	97
1886-1890.....	137	21	491	77	628	99
1891-1895.....	121	17	576	82	697	99
1896-1900.....	93	11	689	84	782	95
1901.....	21	11	149	83	170	95
1902.....	15	8	164	90	179	96
1903.....	16	8	141	76	157	84
48 years.....	998	19	3,328	66	4,326	85

The sex and parentage of the decedents from these two causes combined were as follows:

	Males.	Females.	American Parentage.	Foreign Parentage.
1903.....	52	105	67	90
48 years.				
1856-1903.....	1,957	2,369	2,454	1,872

67-68. *Insanity.* There were 14 deaths from this cause in 1903, of which 10 were general paralysis; 1, dementia with ventral hernia; 1, acute insanity; 1, congestion of brain with mental deficiency; 1, traumatic (broken leg and developed insanity). Of the 14 deaths, 3 were at Butler Hospital. There were also 20 deaths at Butler Hospital from other causes; 4 from phthisis; 3, chronic ne-

phritis; 3, senility; and 1 each, general fatty degeneration; chronic alcoholic neuritis; chronic endocarditis; inanition and mumps; arterio sclerosis; general tuberculosis (with parietic dementia); dysentery; self strangulation; general atheroma (with senile dementia); fatty degeneration of heart with chronic arterial sclerosis.

70-71. *Convulsions.* There were 32 decedents from convulsions in 1903. One was a woman 32 years old; the rest were children. Convulsions were also a contributory cause of death in the following cases: Diarrheal diseases, 15; whooping cough, 12; Bright's disease, 9; indigestion, 7; gastritis, 5; pneumonia, 5; measles, 5; meningitis, 4; scald, 1; bronchitis, 1; tubercular meningitis, 1; cerebral congestion, 1; auto-intoxication, 1; insolation, 1; malaria, 1; spina bifida, 1; mumps, 1; premature birth, 1.

72. *Tetanus.* There were 6 deaths from this cause in 1903; 3 of the decedents were infants; one stepped on a rusty nail, one was the result of a gunshot accident on the Fourth of July, and in one case the cause was not specified.

74-1 and 74-2. *Other Diseases of the Brain and Nervous System.* There were 11 deaths in these classes in 1903, as follows: Atheroma, 1; tumor, 1; cerebral abscess, 3; multiple neuritis, 3; nervous exhaustion, 1; spasm of diaphragm, 1; spinal paralysis with progressive muscular atrophy, 1.

77-80. *Diseases of the Heart.* There were 324 deaths in 1903 from diseases of the heart; this was 47 more than in 1902. So far as specified these deaths were: Valvular, 80; endocarditis, 28; chronic endocarditis, 23; myocarditis, 12; hypertrophy, 8; dilatation, 7; fatty degeneration, 8; insufficiency, 3; cardiac asthma and heart failure, 2 each; and 1 each, enlargement, cardiac dropsy, palsy, rheumatism, and "irregular poorly compensated."

DECEDENTS FROM HEART DISEASE, 48 YEARS, 1856-1903.

YEARS.	PARENTAGE.				SEX.				Total Deaths.	Ratio per 100,000 of population.	Percentage of Deaths from known causes.
	American.		Foreign.		Males.		Females.				
	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.			
1856-60...	104	72	39	37	62	52	81	82	143	57	3.0
1861-65...	169	112	68	59	116	93	121	85	257	89	4.28
1866-70...	164	92	98	70	131	88	131	78	262	82	4.73
1871-75...	277	124	184	88	218	105	243	108	461	106	5.58
1876-80...	271	114	208	74	239	96	240	89	479	92	4.86
1881-85...	377	151	352	111	332	124	397	133	729	129	6.58
1886-90...	456	167	490	135	443	146	503	152	946	149	7.32
1891-95...	454	160	587	140	491	145	550	151	1,041	148	7.12
1896-1900.	507	163	697	137	605	153	599	141	1,204	147	7.80
1901.....	112	167	166	149	138	160	140	152	278	156	8.14
1902.....	116	170	161	142	125	142	152	162	277	153	8.23
1903.....	123	177	201	173	163	181	161	168	324	175	8.42
48 years..	3,130	139	3,251	116	3,063	126	3,318	126	6,381	126	6.46

For particulars for single years see reports for 1882, page 85; for 1885, page 81; and for 1890, page 79.

82. *Embolism and Thrombosis.* There were 9 deaths from these causes in 1903; 6, cerebral embolism; 1, femoral; 1 with phlebitis; 1 with gangrene of feet.

88. *Affections of the Larynx.* There were 7 deaths in 1903 from diseases of the larynx, as follows: Laryngitis, 1; acute catarrhal laryngitis, 4; edema of glottis, 1; spasm of glottis, 1.

90-91. *Bronchitis* caused 126 deaths in 1903; 15 more than in 1902. The following table gives the particulars:

BRONCHITIS IN PROVIDENCE, FORTY-EIGHT YEARS, 1856-1903.

Sex, Parentage, Season, Age; Whole Number and Ratio to Known Causes.

BRONCHITIS.	1866		1861		1866		1871		1876		1881		1886		1891		1896		1901		1902		1903		Totals.
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	
Whole number.....	26	33	56	117	227	309	82	83	86	107	133	117	143	125	122	123	116	92	101	101	127	102	111	126	2,770
Percentage.....	0.55	0.60	1.01	4.01	2.31	2.79	3.49	3.18	3.30	4.30	4.65	4.47	5.02	4.00	4.25	4.03	3.96	3.30	3.47	3.21	3.47	2.98	3.29	3.27	2.80
Sex:																									
Males.....	16	12	22	51	100	145	25	47	38	56	66	50	64	67	58	69	59	51	47	54	54	57	68	69	1,294
Females.....	10	21	34	66	127	164	57	36	48	51	67	67	84	58	64	54	57	41	54	47	47	43	57	1,476	
PARENTAGE:																									
American.....	13	18	24	45	104	146	44	29	29	42	61	48	58	52	47	42	52	30	31	35	39	66	36	33	1,091
Foreign.....	13	15	32	72	123	163	38	54	57	65	72	69	90	73	75	81	64	62	70	66	91	66	75	93	1,679
SEASON:																									
January.....	4	5	8	13	24	34	8	11	12	10	19	12	33	17	13	11	9	5	8	20	20	14	11	15	336
February.....	4	4	9	16	26	33	9	7	12	18	8	16	22	15	12	15	18	14	15	12	23	12	14	23	351
March.....	4	3	4	10	23	31	11	14	11	14	14	8	12	19	18	22	11	17	14	10	21	16	17	341	
April.....	4	5	4	15	25	35	13	7	9	16	17	12	11	18	16	15	14	4	10	5	13	14	9	12	301
May.....	2	6	4	4	20	28	3	5	6	7	20	8	10	12	7	13	17	5	7	11	12	6	10	11	237
June.....	2	3	4	9	16	21	5	6	6	6	4	12	6	6	7	4	7	7	9	4	5	4	2	7	168
July.....	2	3	10	18	13	4	2	6	7	5	11	2	9	5	2	9	4	4	7	3	8	4	2	7	131
August.....	1	1	1	3	10	19	3	2	2	4	2	4	2	4	3	7	4	4	5	2	3	4	2	7	96
September.....	1	5	3	8	11	11	9	3	2	3	8	11	8	2	3	4	6	6	6	3	4	3	5	5	121
October.....	2	4	5	12	15	18	9	3	2	1	8	5	5	4	12	7	7	3	6	8	1	13	10	9	169
November.....	2	4	7	15	17	36	4	10	3	10	7	9	10	9	12	10	6	3	4	10	5	5	11	8	213
December.....	1	1	4	10	29	30	8	11	11	14	18	32	13	13	10	11	14	10	10	16	13	10	21	7	316

BRONCHITIS IN PROVIDENCE, FORTY-EIGHT YEARS, 1856-1903.—CONCLUDED.

Ser. Parentage, Season, Age; Whole Number and Ratio to Known Causes.

	1856 1861 1866 1871 1876 1881				1886 1891 1896 1901 1903				Totals.															
	to 1860	to 1865	to 1870	to 1875	to 1880	to 1885	to 1890	to 1895																
BRONCHITIS.																								
First Quarter.....	8	12	21	31	76	98	28	32	35	42	55	1,028												
Second Quarter.....	9	11	12	28	61	84	21	18	24	27	41	595												
Third Quarter.....	4	6	7	21	29	43	12	9	11	13	17	348												
Fourth Quarter.....	5	4	16	37	61	84	21	24	26	33	46	686												
First 4 months.....	12	17	25	46	101	123	41	39	44	58	67	1,329												
Second 4 ".....	8	7	12	26	54	81	16	23	22	39	21	500												
Third 4 ".....	6	9	19	45	72	95	26	29	19	27	36	519												
AGE:																								
Under 1 year.....	10	10	10	35	82	118	28	25	33	33	55	38	40	46	41	44	38	39	36	61	52	54	1,007	
1 and under 2.....	8	2	3	18	31	29	10	12	12	16	13	9	21	13	18	18	14	16	13	17	5	6	2	185
2 ".....	1	2	4	10	14	21	8	6	7	9	7	10	9	6	9	16	14	4	8	7	5	6	2	34
3 ".....	1	1	1	1	2	6	1	2	2	1	1	1	1	2	3	1	2	2	1	1	4	1	1	8
4 ".....	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	1	2	1	1	1	14
5 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	14
6 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
7 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
8 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
9 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
10 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
11 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
12 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
13 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
14 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
15 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
16 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
17 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
18 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
19 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
20 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
21 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
22 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
23 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
24 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
25 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
26 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
27 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
28 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
29 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
30 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
31 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
32 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
33 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
34 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
35 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
36 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
37 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
38 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
39 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
40 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
41 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
42 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
43 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
44 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
45 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
46 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
47 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
48 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
49 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
50 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
51 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
52 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
53 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
54 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
55 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
56 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
57 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
58 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
59 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
60 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
61 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
62 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
63 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
64 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
65 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
66 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
67 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
68 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
69 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
70 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
71 ".....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
72 ".....	1	1	1	1	1	1	1	1	1	1														

92, 93, 95. *Pneumonia*. There were 409 deaths from pneumonia and congestion of the lungs in 1903, which was 87 more than in the preceding year. These deaths were as follows in the different seasons of the year:

	Number.	Per cent.		Number.	Per cent.
First quarter.....	167.....	40.83	Third quarter.....	43.....	10.51
Second quarter.....	97.....	23.72	Fourth quarter.....	102.....	24.94

The following tables give the statistics concerning the decedents from pneumonia and congestion of the lungs:

PNEUMONIA AND CONGESTION OF THE LUNGS, 48 YEARS,
1856-1903.

YEARS.	PARENTAGE.				SEX.				Total Deaths.	Ratio per 100,000 of population.
	American.		Foreign.		Males.		Females.			
	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.	Deaths.	Ratio per 100,000 of population.		
1856-1860...	184	127	157	151	192	163	149	114	341	127
1861-1865...	193	128	162	141	190	153	165	116	355	133
1866-1870...	205	115	202	146	214	144	193	114	407	128
1871-1875...	334	149	319	153	334	161	319	142	653	151
1876-1880...	337	142	416	148	356	144	397	147	753	145
1881-1885...	453	182	500	158	483	180	470	158	953	168
1886-1890...	436	160	667	184	571	188	532	161	1,103	174
1891-1895...	549	194	963	229	787	233	725	199	1,512	215
1896-1900...	533	171	958	188	814	205	677	160	1,491	182
1901.....	105	157	189	160	168	194	126	137	294	165
1902.....	107	157	215	190	179	204	143	153	322	177
1903.....	117	168	292	252	219	244	190	199	409	221
48 years..	3,553	158	5,040	180	4,507	187	4,086	155	8,593	170

PNEUMONIA AND CONGESTION OF THE LUNGS IN PROVIDENCE, FORTY-EIGHT YEARS, 1856-1903.
Sex, Parentage, Season, Age, Whole Number and Ratio to Known Causes.

PNEUMONIA AND CONGESTION OF THE LUNGS.	1855 1861 1866 1871 1876 1881 to												
--	---	--	--	--	--	--	--	--	--	--	--	--	--

PNEUMONIA AND CONGESTION OF THE LUNGS IN PROVIDENCE, FORTY-EIGHT YEARS, 1856-1903.

CONCLUDED.

Sex, Parentage, Season, Age; Whole Number, and Ratio to Known Causes.

PNEUMONIA AND CONGESTION OF THE LUNGS.	1856-1861		1862-1871		1872-1881		1882-1891		1892-1899		1900-1903		Totals.
	to 1861	to 1861	to 1871	to 1871	to 1881	to 1881	to 1891	to 1891	to 1900	to 1900	to 1903	to 1903	
First Quarter.....	122	136	156	253	276	350	81	102	112	97	108	76	158
Second Quarter.....	97	90	112	174	205	223	52	56	55	50	55	54	71
Third Quarter.....	34	34	46	68	74	64	20	18	13	17	22	18	17
Fourth Quarter.....	88	86	93	168	198	216	57	48	41	40	59	103	69
First four months.....	167	171	218	330	370	503	102	130	145	121	131	103	189
Second four months.....	83	77	79	136	157	206	44	36	30	38	47	41	60
Third four months.....	101	107	110	187	226	245	64	58	46	45	66	107	76
AGE:													
Under 1 year.....	86	88	87	174	162	139	27	29	17	29	36	29	43
1 and under 2.....	54	31	40	54	70	74	9	17	11	9	11	12	15
2 " ".....	31	29	39	43	58	55	12	18	14	11	15	13	22
5 " ".....	13	10	15	14	19	17	7	8	6	4	3	4	2
10 " ".....	6	4	6	11	6	9	2	2	...	...	...	...	...
15 " ".....	2	4	4	14	16	21	5	3	5	6	6	4	3
20 " ".....	20	28	27	36	33	57	18	11	19	10	21	17	24
30 " ".....	28	27	23	51	44	95	22	32	29	26	24	24	38
40 " ".....	26	31	33	55	80	105	26	28	34	24	27	28	39
50 " ".....	26	32	41	54	77	112	24	26	28	31	29	35	35
60 " ".....	24	31	46	68	88	116	26	31	27	35	34	40	60
70 " ".....	19	29	30	60	81	104	23	24	18	17	21	31	33
80 " ".....	5	15	17	17	43	8	9	11	8	12	11	11	11
90 and over.....	...	...	...	...	...	...	...	...	...	...	...	...	...

99-2. *Other Diseases of the Respiratory System.* The four deaths under this head were as follows: Pulmonary abscess, 1; hemoptysis, 3.

101. *Affections of the Pharynx.* There were four deaths in this class; 2, quinsy; 1, peritonsillar abscess; 1, retropharyngeal abscess.

103-104. *Diseases of the Stomach.* Besides the 4 deaths from ulcer, specified in the table, there were 73 from various other affections of the stomach, as follows: gastritis, 35; indigestion, 34; gastric hemorrhage, 1; chronic gastric catarrh, 1; ptomaine poisoning, 1; dentition, 1.

14, 105, 106. *Diarrheal diseases.* The total number of deaths from this class of diseases was 369, of which 49 were from dysentery; 263 from diarrhea and enteritis among children under two years of age; 57 from these two diseases among persons of two years and over.

PARENTAGE.				SEX.					
American.		Foreign.		Male.		Female.		Total.	
Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.	Deaths.	Ratio.
120	172	249	215	197	219	172	190	369	199

It is impossible to compare the classification of these diseases followed in previous reports with that of the Bertillon system as it was in 1900, and the Bertillon system now in use is different from either. The table which has appeared in these reports from their commencement cannot be continued, but will be printed as it stands complete for 61 years.

The following table shows the number of deaths from each diarrheal disease, and the percentage from all these diseases, in different periods of time, from 1840 to 1901, inclusive:

	Cholera Infantum.	Cholera Morbus.	Diarrhea.	Dysentery.	Enteritis.	Total.	Ratio to all known causes.
1840-1854.....	500	63	349	796	102	1,870	16.77
1855-1859.....	250	14	159	127	23	573	12.06
1860-1864.....	297	17	154	189	46	703	13.27
1865-1869.....	281	35	125	187	37	665	12.15
1870-1874.....	532	26	185	91	97	931	12.04
1875-1879.....	509	24	169	77	104	883	9.13
1880-1884.....	571	39	220	74	164	1,068	9.73
1885-1889.....	538	53	175	121	220	1,107	9.07
1890-1894.....	712	44	199	119	400	1,474	10.21
1895-1899.....	680	20	101	70	552	1,423	9.59
40 years.....	4,930	335	1,836	1,851	1,745	10,697	11.09
1900.....						308	8.41
41 years.....						11,005	10.98
	105	106	14				
	Diarrhea and Enteritis, under 2 years.	Diarrhea and Enteritis, 2 years and over.	Dysentery.	Total.	Ratio to known causes.		
1901.....	234	65	19	368	10.78		
1902.....	250	67	37	364	10.52		
1903.....	263	57	49	369	9.59		
44 years.....				12,096	10.91		

109. *Other affections of the Intestines.* Besides hernia and intestinal obstructions, which are given in the table, there were ten other deaths from intestinal diseases: 2, intestinal indigestion; 2, melena; and 1 each, perforation of bowel; obstructive jaundice; ulcer of duodenum; abscess of rectum; fistula in ano; and intestinal hemorrhage.

114. *Diseases of the Liver.* Besides 43 deaths from cirrhosis, there were 13 deaths from other diseases of the liver, as follows: 4 from biliary calculi; 1, congestion; 1, obstructive congestion; 1, hepatitis; 1, enlargement; 1, hepatic abscess; 1, multiple abscess; 1 organic; and one not described. There were also two deaths from acute yellow atrophy of the liver.

116. *Peritonitis.* There were 12 deaths from this cause which, so far as described, were as follows: 1, acute; 2, acute general; 1, general with intestinal obstruction; 1, general purulent with ischio-rectal abscess; 1, general with cholecystitis; 1, with reumatism; 1, pelvic; 1, pelvic abscess, septic peritonitis and gastric ulcer; 1 metritis, pelvic cellulitis and peritonitis.

The number of deaths from peritonitis each year since 1890 is as follows: The apparent diminution is probably due to a transference of cases to appendicitis. See the table of that disease:

1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.
29	27	14	30	17	16	19	20	27	9	10	17	13	12

118. *Appendicitis.* This disease appeared as a cause of death for the first time in Providence in 1890. Since that time the deaths have been as follows:

Year.	Males.	Females.	American Parentage.	Foreign Parentage.	Total.
1890.....	1.....	0.....	1.....	0.....	1
1891.....	0.....	0.....	0.....	0.....	0
1892.....	1.....	0.....	1.....	0.....	1
1893.....	5.....	2.....	5.....	2.....	7
1894.....	8.....	2.....	5.....	5.....	10
1895.....	8.....	6.....	6.....	8.....	14
1896.....	13.....	5.....	3.....	15.....	18
1897.....	7.....	3.....	5.....	5.....	10
1898.....	21.....	8.....	7.....	22.....	29
1899.....	12.....	4.....	6.....	10.....	16
1900.....	16.....	8.....	9.....	15.....	24
1901.....	20.....	10.....	8.....	22.....	30
1902.....	22.....	10.....	15.....	17.....	32
1903.....	23.....	13.....	15.....	21.....	36
Total.....	157.....	71.....	86.....	142.....	228

The age distribution for fourteen years was as follows:

YEARS, 1890 to 1903.	Under 1 year.	1	2-5	5-10	10-15	15-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	Total.
	0	0	2	15	20	41	66	31	28	18	6	1	0	228

121. *Diseases of the Kidneys.* There were 9 deaths from other diseases of the kidneys than those specified in Table VIII, as follows: Pyelitis, 3; pyelonephritis, and suppurative nephritis, 2 each; 1, congestion, and 1, nephrelcosis.

123. *Diseases of the Bladder.* There were 4 deaths in this class, of which 3 were cystitis, and 1 tumor.

124. *Diseases of the Urethra.* There was one death from stricture of urethra.

129. *Uterine Tumors.* There were 8 deaths under this head; 4 were fibroid, and 4 myomata and fibro-myoma.

131. *Cysts and other Tumors of the Ovary.* Three deaths; 1, ovarian cyst; 1, par-ovarian and 1 infected ovarian cyst.

132. *Other Diseases of the female genital organs* were: acute salpingitis, 1; double salpingitis, 2; pyosalpinx, 2.

134. *Accidents of Pregnancy* were as follows: Extra uterine, 2; placenta previa, pernicious vomiting, and eclampsia, 1 each.

136. *Accidents of Labor.* Six deaths. Rupture of uterus, 2; difficult labor, 1; abnormal labor, 1; shock, 1; one not described.

146. *Non-tuberculous Diseases of Bones* caused 6 deaths, as follows: Rachitis, 2; mastoid disease, 2; caries of spine, 1; disease of spine not described, 1.

150. *Malformations.* There were 32 deaths in this class: Congenital heart disease, 11; patent foramen ovale, 7;

spina bifida, 3; patent ductus arteriosus, and cyanosis, 2 each; "blue baby," 1; imperforate anus, 1; imperforate rectum, 1; extrophy of bladder, 1; arrest of development, 1; meningocele (sub-occipital), 1; hydrocephalus, 1.

151-2. *Congenital Debility.* Only deaths of children under 3 months of age, are tabulated under this and the following title. This is the rule followed by the United States Census Office. There were 66 deaths of children under one year of age from the following causes: Malnutrition, 12; marasmus and mal-assimilation, 9 each; inanition, 8; icterus neonatorum, 7; lack of nutrition, 5; general debility, 4; liver trouble and jaundice, 3; atelectasis and edema of lungs, 2 each; and 1 each, pulmonary collapse, congenital debility, "twin very small, poor circulation;" "starvation due to death of mother;" "inanition, could not nurse, no nipples."

152. *Other diseases of early infancy* were: Hemorrhage of cord, 4; asphyxia neonatorum, 1.

164. *Fractures.* There were 13 deaths in this class, as follows: Skull, 5; thigh, 5; hip, 2; humerus, 1.

166. *Other accidental traumatisms.* There were 84 deaths in this class:

Machinery accidents, 3; 1 crushed between rollers of carding machine; 1 hit by board from buzz-saw; 1 wound of head by circular saw.

Railroad accidents, 22: 1 caught foot in frog, and was run over; 2 caught between freight cars while washing cars; 1 fell in getting off a train; 1 knocked from engine by gate swinging across track; 2 playing on track; 1 asleep on track; 1 switching cars, lost hold; 1 jumped from freight train and was struck by express.

Injuries by horses and vehicles, 13: Run over by wagon, 2; run over by team while jumping from electric car; thrown from hose wagon and run over; fell from load of stone and run over; crushed by wheel of stone loaded team;

knocked down by wagon; struck by truck; fall from low gear; crushed between tip-cart and fence; crushed between steam-roller and load of stone; run over by moving team; kicked by a horse.

Injuries by electric cars, 7.

Elevator accidents, 2.

There were 37 various other accidents specified as follows: Fall down stairs, 9; fall not described, 6; fall from staging, 4; from window, 3; from roof, 2; on sidewalks, 2; from coal pocket, 1; to deck, 1; into hold, 1; from telephone pole, after receiving a shock, 1; on carpet, 1; through hole in floor, 1; over embankment, 1; in barn, 1; injury to head while working in trench, 1; bicycle collision, 2.

167. *Burns and Scalds.* There were 17 deaths, as follows: Clothes took fire, 7; 3 from stove, 1 from lamp, 1 from matches, 1 from rubbish fire, 1 manner unknown; lamp exploded, 1; fell into boiling water, 2; pulled boiling water over, 1; mosquito netting set fire by matches, 1; fell into hot macaroni, 1; scalded by hot bath following convulsions, 1; kerosene caught while cleaning boiler, 1; of 2 the manner was not specified.

174. *Absorption of deleterious gases.* There were 20 deaths in this class, of which 16 were by illuminating gas; 1, coal gas from stove; 2, marsh gas from manhole over wool-washings; 1, acid fumes.

175. *Other acute poisonings* caused 3 deaths: A child 2 years old took medicine left for the mother; opium taken to relieve pain; ptomaine poison, probably from decayed fruit.

176. *Other external violence.* There were 35 deaths from various external causes, of which 22 were injuries at birth as follows: Forceps delivery, 10; tedious or difficult labor, 7; pressure on cord, 2; dystocia, 1; asphyxia, 1; version (atelectasis), 1. There were 3 deaths from overlaying; 2 from inhalation of maternal discharges; 1 found

dead in bed. One death from laparotomy for ventro-fixation. There were also 6 deaths from homicide; 2 by bullet wounds; 1, fracture of jaw; 1, throat cut; 1, strangulation by hand; 1, exposure to cold, criminal neglect of infant.

179. *Unspecified or Ill-defined.* A good many of the following causes appear also under Title 151-2. The Manual of International Classification of causes of Death, issued by the United States Census Office, prescribes that deaths of children under 3 months of age, dying of marasmus, inanition, etc., shall be tabulated under 151-2 and that all over that age shall be tabulated under 179. This distinction is made in this report. There were 48 deaths in this class, as follows: Marasmus, 10; marasmus due to mal-assimilation, 4; marasmus, lack of proper food and care, 2; marasmus, bottle fed, 1; marasmus, chronic congestive cirrhosis, 1; mal-nutrition, 6; mal-assimilation, 1; anorexia, mal-nutrition, 1; inanition, 1; infantile atrophy, 1; inanition from inability to swallow food, 1; heart failure, overwork, mal-nutrition, no organic disease, 1; heart failure, exhaustion in hysterics, 1; debility, 2; premature, protuberance of abdomen, 1; sudden, palsy of heart, 1; improper feeding, 2; suspected mastoid abscess, operation, 1; malaria, 1; grave secondary anemia, 1; edema of lungs, 1; unknown, natural causes, found dead beside lobster shells and whiskey bottle, 1; unknown, natural causes, 6.

It is true that on the face, some of the above returns seem to specify some disease, but investigation by the Registrar determined the fact that the diagnosis was simply a guess and they were therefore placed in this class.

MARRIAGES.

The number of marriages reported in Providence for 1903 was 2,238, which was 201 more than in 1902.

The following table shows the number of marriages in each month and quarter of 1903, and each of the six years preceding; also the aggregate and average numbers for each month and quarter of the forty-nine years, 1855 to 1903:

TABLE XI. MARRIAGES. SEASON.

MONTHS.	1903.	1902.	1901.	1900.	1899.	1898.	1897.	49 years. 1855-1903.	49 years. Average.
January	149	149	162	158	127	130	125	4,828	98
February.....	176	141	135	145	109	117	98	4,282	87
March	85	95	66	61	66	73	73	2,629	54
1st quarter.....	410	385	363	364	302	320	296	11,739	239
April.....	176	217	193	182	183	150	105	5,003	102
May.....	155	124	123	120	101	98	102	4,304	88
June.....	288	245	256	261	189	186	210	6,013	123
2d quarter.....	619	586	572	563	473	434	417	15,320	313
July	145	162	148	123	97	95	91	3,968	82
August.....	190	145	138	137	130	106	102	3,935	80
September.....	210	194	160	185	151	157	137	5,194	106
3d quarter.....	545	501	446	445	378	358	330	13,117	268
October.....	249	220	178	180	166	167	148	5,919	121
November.....	275	240	207	221	241	182	166	6,437	131
December.....	140	106	109	127	110	103	101	4,019	82
4th quarter.....	664	565	494	528	517	452	415	16,375	334
Yearly totals.....	2,238	2,037	1,875	1,900	1,670	1,564	1,458	56,551	1,154

The population of the city in 1903 was estimated at 185,000, and the number of persons married during the year was 4,476, a ratio of one in 41.33 or 24.19 in each 1,000 of the population. The ratio of marriages was therefore 12.09 in each 1,000.

Season. The following figures show the number and per cent. of marriages in each quarter of 1903, and of the forty-nine years, 1855 to 1903:

	1903.		1855-1903.	
	Marriages.	Per cent.	Marriages.	Per cent.
January-March.....	410.....	18.32.....	11,739.....	20.76.....
April-June.....	619.....	27.66.....	15,320.....	27.09.....
July-September.....	545.....	24.35.....	13,117.....	23.19.....
October-December.....	664.....	29.67.....	16,375.....	28.96.....
Year.....	2,238.....	100.00.....	56,551.....	100.00.....

Table XII shows the birthplaces of the persons married in 1903:

TABLE XII. MARRIAGES, 1903. *Nativity of the Parties.*

BIRTHPLACES OF GROOMS.	BIRTHPLACES OF BRIDES.												Whole Number of Grooms.
	United States.	Ireland.	England, Scotland, Wales.	Germany.	British America.	French Canada.	Portugal and Western Islands.	Sweden.	Norway.	Russia and Poland.	Italy.	Other Countries.	
United States.....	939	73	57	10	60	19	2	9	1	.....	6	1,176
Ireland.....	39	113	9	.....	.....	.....	.....	.....	.....	.....	.....	161
England, Scotland, Wales.....	72	13	41	3	8	2	.....	.....	.....	.....	.....	139
Germany.....	10	4	1	9	1	.....	.....	.....	1	.....	.....	26
British America.....	47	7	6	.....	10	.....	.....	3	.....	.....	.....	73
French Canada.....	19	.....	2	.....	2	31	.....	.....	.....	.....	3	57
Portugal and Western Islands.....	8	1	.....	.....	.....	70	.....	.....	.....	.....	.....	79
Sweden.....	5	.....	.....	.....	2	.....	59	1	.....	.....	3	70
Norway.....	2	.....	.....	.....	.....	.....	3	1	.....	.....	.....	6
Russia and Poland.....	4	1	1	2	.....	.....	.....	73	.....	10	.....	91
Italy.....	21	1	3	.....	1	.....	.....	.....	236	.....	.....	262
Other Countries.....	20	1	2	1	2	1	1	1	9	1	59	98
Whole Number of Brides.....	1,186	214	122	25	86	53	72	75	3	84	237	81	2,238

Bride and groom born in the same country. There were 939 marriages, in 1903, where both bride and groom were natives of the United States; 41.96 per cent. of all the marriages during the year. In 113 marriages, or 5.05 per cent., both parties were natives of Ireland.

Bride and groom born in different countries. The whole number of grooms born in the United States was 1,176; of these, 237, or 20.15 per cent., married foreign women. Of the 1,186 brides born in the United States, 247, or 20.82 per cent., married men of foreign birth. Of the 161 grooms born in

Ireland, 48, or 29.81 per cent. married women of some other country; of the 214 brides born in Ireland, 101, or 47.19 per cent. married natives of some other country than their own. There were 98 grooms born in other countries than those named in the table. Their nativity was as follows: Austria, 43; China, 10; Denmark, Armenia and Turkey, 6 each; Finland, 5; West Indies, 4; Roumania, France and Syria, 3 each; Hungary, Spain and Switzerland, 2 each; Belgium, Bolivia and Arabia, 1 each.

The 81 brides born in other countries were born as follows: Austria, 52; Finland, 6; Armenia, 5; Turkey, Denmark, Belgium, France and Syria, 3 each; West Indies, 2; Roumania, 1.

The following table shows the number and percentage of American, foreign and mixed marriages in the forty-nine years, from 1855 to 1903; the statistics are given for periods of five years, from 1855 to 1899, and for each year since 1899. The same statistics for each one of the twenty-eight years, 1855-1882, will be found on page 25 of the Report for 1882:

Years.	American.		Foreign.		Mixed.	
	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.
1855-1859.....	1,990.....	54.25.....	1,090.....	35.62.....	310.....	10.13
1860-1864.....	1,997.....	55.40.....	989.....	32.29.....	377.....	12.31
1865-1869.....	2,433.....	58.23.....	1,216.....	29.11.....	529.....	12.66
1870-1874.....	2,966.....	55.84.....	1,508.....	28.39.....	838.....	15.77
1875-1879.....	2,932.....	57.85.....	1,256.....	24.78.....	880.....	17.37
1880-1884.....	3,254.....	54.90.....	1,449.....	24.45.....	1,224.....	20.65
1885-1889.....	3,166.....	49.53.....	1,890.....	29.57.....	1,336.....	20.90
1890-1894.....	3,413.....	44.84.....	2,582.....	33.93.....	1,616.....	21.23
1895-1899.....	3,525.....	44.71.....	2,595.....	32.92.....	1,764.....	22.37
1900.....	843.....	44.37.....	608.....	32.00.....	449.....	23.63
1901.....	846.....	45.12.....	614.....	32.75.....	415.....	22.13
1902.....	888.....	43.59.....	723.....	35.50.....	428.....	20.91
1903.....	939.....	41.97.....	815.....	36.42.....	484.....	21.62
49 years.....	28,562.....	50.51.....	17,335.....	30.65.....	10,648.....	18.84

The whole number of marriages given in the preceding table for forty-nine years is 56,545, while in Table XI it is 56,551; this is owing to imperfect statistics in the early records. See Report for 1879, page 22.

Marriages of colored persons. There were 83 marriages in 1903, in which both parties were colored; 3 where the man was colored and the woman white; 3 where the man was white and the woman colored; and 1 where both were Indian; in all, 90, or 5 more than in 1902. There were 12 marriages of Chinese men and white women.

The number of marriages where one of the parties was colored and the other white has been as follows in the last twenty-one years:

1881, 5; 1882, 5; 1883, 1; 1884, 3; 1885, 6; 1886, 4; 1887, 7; 1888, 4; 1889, 4; 1890, 2; 1891, 5; 1892, 3; 1893, 3; 1894, 1; 1895, 3; 1896, 3; 1897, 3; 1898, 6; 1899, 7; 1900, 5; 1901, 6; 1902, 5; 1903, 6.

The aggregate and average age of the colored persons married in 1903 were as follows:

86 males.....	Aggregate age, 2,700.....	Average age, 31.39
36 females.....	Aggregate age, 2,296.....	Average age, 26.69

The whole number of marriages of colored persons during the forty-eight years, 1856-1903, either one or both parties being colored, was 2,375; the aggregate and average age of the parties were as follows:

2,363 males.....	Aggregate age, 71,113.....	Average age, 30.09
2,293 females.....	Aggregate age, 58,512.....	Average age, 25.53

The difference in the number of males and females is owing to the fact of the mixed marriages just alluded to.

Table XIII shows the number and percentage of brides and grooms in each division of age:

TABLE XIII. MARRIAGES, 1903. *Ages of the Parties.*

AGES OF GROOMS.	AGES OF BRIDES.											Whole Number of Grooms.	Percentage of Grooms.
	Under 20 years.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	70 to 75.		
Under 20 years.....	24	11	1	.....	.....	.....	.....	.....	.....	.....	.....	36	1.61
20 to 25.....	192	482	84	10	1	.....	.....	.....	.....	.....	.....	769	34.36
25 to 30.....	86	359	237	48	7	1	.....	.....	.....	.....	.....	738	32.98
30 to 35.....	18	114	140	51	20	7	1	1	.....	.....	.....	352	15.73
35 to 40.....	3	24	45	43	26	6	.....	.....	.....	.....	.....	147	6.57
40 to 45.....	.....	6	23	21	11	15	4	1	.....	.....	.....	81	3.62
45 to 50.....	.....	5	10	12	14	10	5	3	1	.....	.....	60	2.68
50 to 55.....	1	1	4	.....	4	4	7	2	3	.....	.....	26	1.16
55 to 60.....	.....	.....	1	1	1	3	4	3	.....	2	.....	15	0.67
60 to 65.....	.....	.....	.....	.....	1	.....	1	.....	1	3	.....	6	0.27
65 to 70.....	.....	.....	.....	.....	1	1	1	1	.....	1	.....	5	0.22
70 to 75.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	0.04
75 to 80.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1	2	0.09
Whole number of Brides.	324	1,002	545	187	86	47	23	12	5	6	1	2,238	
Percentage of Brides.	14.48	44.77	24.35	8.36	3.84	2.10	1.03	0.54	0.22	0.27	0.04		100.00

In 845 marriages, or 37.76 per cent. of all, the bride and groom were in the same division of age.

The aggregate and average age of persons married were as follows:

FOR THE YEAR 1903.

2,238 males.....	Aggregate age, 63,458.....	Average age, 28.35
2,238 females.....	Aggregate age, 55,763.....	Average age, 24.91

FOR THE FORTY-EIGHT YEARS, 1856 to 1903.

55,902 males.....	Aggregate age, 1,570,584.....	Average age, 28.09
55,899 females.....	Aggregate age, 1,300,580.....	Average age, 23.26

The following figures show the average age for the period of forty-eight years, 1856 to 1903. For particulars of each year, see Reports for 1882, page 28, and for 1885, page 24:

Years.	Males.		Females.	
	No.	Average age.	No.	Average age.
1856-1860.....	3,037	27.93 years	3,034	24.05 years
1861-1865.....	3,152	28.66 years	3,152	24.54 years
1866-1870.....	4,428	28.38 years	4,428	24.72 years
1871-1875.....	5,432	28.63 years	5,432	24.93 years
1876-1880.....	5,221	29.11 years	5,221	25.21 years
1881-1885.....	5,786	29.31 years	5,786	25.67 years
1886-1890.....	6,731	29.10 years	6,731	25.43 years
1891-1895.....	7,794	28.90 years	7,794	25.44 years
1896-1900.....	8,171	28.96 years	8,171	25.51 years
1901.....	1,875	28.92 years	1,875	25.35 years
1902.....	2,037	28.71 years	2,037	25.40 years
1903.....	2,238	28.35 years	2,238	24.91 years
48 years	55,902	28.09 years	55,899	23.26

Number of times married. Table XIV shows how many of the marriages in 1903 were the first, second or third marriages of the parties:

TABLE XIV. MARRIAGES, 1903. *Number of times married.*
(Table XI in Reports previous to 1898.)

GROOMS. Number of the Marriage.	BRIDES. Number of the Marriage.			Whole Number of Grooms.
	First.	Second.	Third.	
First	1,829	111	6	1,946
Second.....	180	82	5	267
Third.....	11	8	4	23
Fourth.....	1	1	.....	2
Whole number of Brides.....	2,021	202	15	2,238

In 1,829 cases, or 81.72 per cent. of all, it was the first marriage of both parties. The number of grooms married for the first time was 1,946, or 86.95 per cent. of all; of brides, 2,021, or 90.30 per cent.

In 82 cases, 3.66 per cent. of all, it was the second marriage of both parties.

Marriage of Divorced Persons. There were, in 1903, 15 marriages where both parties had been divorced; there were 68 other marriages where the man had been divorced, and 59 where the woman had been; in all, 142 marriages, or 6.34 per cent. of all, where one or both of the parties had been divorced. This was 19 more marriages and 0.30 per cent. more than in 1902.

The number and proportion of the marriages of this class in each year since 1883, have been as follows:

Year.	No.	Per ct.	Year.	No.	Per ct.
1883.....	96.....	8.07	1894.....	67.....	4.48
1884.....	91.....	7.95	1895.....	103.....	6.39
1885.....	74.....	6.78	1896.....	93.....	5.89
1886.....	76.....	6.08	1897.....	94.....	6.45
1887.....	100.....	7.48	1898.....	98.....	6.27
1888.....	82.....	6.06	1899.....	89.....	5.33
1889.....	97.....	7.09	1900.....	129.....	6.79
1890.....	95.....	6.64	1901.....	101.....	5.39
1891.....	89.....	5.98	1902.....	123.....	6.04
1892.....	106.....	6.66	1903.....	142.....	6.34
1893.....	104.....	6.48			

There were 4,476 persons married in 1903, of whom 157, or 3.50 per cent. had been divorced; 83 men and 74 women. The 142 marriages of divorced persons were performed by clergymen of different denominations, or by civil authority, as follows:

Baptist.....49	Christian 4	Advent Christian..... 1
Methodist 19	Primitive Methodist.... 3	Presbyterian..... 1
Congregationalist.....12	Lutheran 3	Independent..... 1
Universalist.....11	Hebrew..... 2	Justices of Supreme
Free Baptist..... 9	Episcopal..... 2	Court.....15
United Presbyterian.... 8	Unitarian..... 2	

Denominational. The 2,238 marriages in 1903 were performed by clergymen of various denominations, or by civil authority, as follows:

Roman Catholic.....1,016	Unitarian..... 15
Baptist..... 292	Presbyterian..... 15
Episcopal..... 264	Independent..... 10
Methodist..... 156	Primitive Methodists..... 9
Congregational..... 126	Armenian..... 7
Justices Supreme Court..... 55	Advent Christian..... 7
United Presbyterian..... 53	Disciples of Christ..... 2
Christian..... 49	New Jerusalem..... 2
Hebrew..... 44	Latter Day Saints..... 2
Free Baptist..... 40	Friends Service..... 1
Lutheran..... 38	
Universalist..... 35	Total.....2,238

Nativity and Residence. There were, in 1903, 142 marriages, or 6.34 per cent. of all, in which both parties were natives of Providence. There were besides, 169 marriages where the groom only was born here; and in 306 the bride only. This gives a total of 759 persons married here during the year who were natives of the city; this was 16.95 per cent. of the 4,476 persons married during the year.

In 392 marriages or 17.51 per cent. of all, both parties were non-residents of the city; this was 75 more marriages and 1.95 per cent. more than in 1902. Of these 392 marriages, there were 251 where both parties were from outside the State; in 188, both parties came from Massachusetts; and in 27 others, one of the parties was from that State.

Marriage Licenses. There were 2,364 marriage licenses issued in 1903 from the office of the City Registrar; this was 126 more than the number of marriages during the year. These two numbers never correspond exactly; see Report for 1886, page 26.

Marriage and Education. The 4,476 persons married in Providence in 1903 were divided as follows, as to sex and nativity:

Born in the United States	Males, 1,176....	Females, 1,186
Born in foreign countries	Males, 1,062.....	Females, 1,052

The number and proportion who signed the marriage certificate with a mark is shown in the following table:

	Whole No. Married.	Signed with a mark.	In each 100.
Males born in United States	1,176	7	0.59
Females born in United States	1,186	15	1.26
Total born in United States	2,362	22	0.83
Males born in foreign countries	1,062	176	16.57
Females born in foreign countries	1,052	274	26.04
Total born in foreign countries	2,114	450	21.28
Totals	4,476	472	10.64

There were 22 persons (7 males and 15 females) born in the United States who signed the marriage certificate with a mark. This was 11 less than in 1902; of these 22 persons, only one male was of white American parentage. This was 4.54 per cent.; in 1902, the proportion was 18.18 per cent. Of the other 22 persons, 12 were colored (5 males and 7 females), and 9 of foreign parentage (1 male and 8 females).

There were 450 persons born in foreign countries (176 males and 274 females) who signed with a mark; this was

141 more than in 1902. The whole number of persons signing with a mark in 1903 was 130 more than in the preceding year, and the proportion to the whole number of persons married 2.15 per cent. more.

The following figures show these facts for the period of forty-five years, 1859 to 1903:

	Whole No. Married.	Signed with a mark.	In each 100.
Males born in the United States.....	32,399	1,064	3.28
Females born in the United States.....	32,463	1,429	4.40
Total born in the United States.....	64,862	2,493	3.84
Males born in foreign countries.....	21,697	4,229	19.49
Females born in foreign countries.....	21,633	5,883	27.19
Total born in foreign countries.....	43,330	10,112	23.33
Totals.....	108,192	12,605	11.65

BIRTHS.

Physicians and midwives report the births which they attend, and in this way many names are added to the enumerators' returns. In 1903 the enumerators brought in 4,485 returns; of these returns, 121 were still-births, and 134 were of children born out of town and moving into the city within the year. This leaves 4,230 enumerators' returns recorded as births in the city. To these were added 705, which were received complete from other sources, so that the total number of complete returns for the year 1903 was 4,935. As the population of the city for 1903 was estimated to be 185,000, the birth rate was 26.67. There were, in 1903, 216 more births than in 1902.

Previous to 1896 still-births were always reckoned among the births in the registration reports of this city. This, however, is not the method followed by statisticians generally, and the statistics of this city are now made comparable with those of other cities by reckoning as births only the living births.

TABLE XV. (Table I in Reports previous to 1898.)
 BIRTHS, 1903. *Months, Sex and Color.*

MONTHS.	Males.	Females.	Total.	Colored Children included in preceding.		
				Males.	Females.	Total.
January.....	234	200	434	8	7	15
February.....	212	190	402	7	4	11
March.....	210	229	439	6	5	11
1st quarter.....	656	619	1,275	21	16	37
April.....	183	181	364	4	1	5
May.....	177	197	374	5	7	12
June.....	212	169	381	4	2	6
2d quarter.....	572	547	1,119	13	10	23
July.....	242	217	459	5	8	13
August.....	209	209	418	7	1	8
September.....	217	199	416	1	8	9
3d quarter.....	668	625	1,293	13	17	30
October.....	207	209	416	10	5	15
November.....	210	194	404	3	5	8
December.....	212	216	428	6	3	9
4th quarter.....	629	619	1,248	19	13	32
Whole Year.....	2,525	2,410	4,935	66	56	122

Ratio. The population of the city in 1903, was 185,000. The ratio of the 4,935 births to population, therefore, was 26.67 per 1,000 inhabitants, or one in 37.48.

Season. The following figures show the aggregate number of births in each quarter of the year for the forty-seven years, 1856 to 1902; the number in each quarter in 1903; and the same for the forty-eight years, 1856 to 1903:

	Jan.	April.	First	July.	Oct.	Second	Whole
	March.	June.	6 mos.	Sept.	Dec.	6 mos.	Year.
Forty-seven years.....	31,490	31,742	63,222	33,368	33,521	66,879	130,101
1903.....	1,275	1,119	2,394	1,293	1,248	2,541	4,935
Forty-eight years.....	32,765	32,861	65,616	34,661	34,769	69,420	135,036

Proportion of the Sexes. The number of male children born in Providence in 1903 was 2,525; of female children, 2,410. The proportions of male and female children in each quarter and in the whole year were as follows:

	Males.	Females.	Males.	Females.	Males.	Females.
Jan.-March.....	656	619	105.9 to 100;	or 51.45 and 48.55	in each 100 born.	
April-June.....	572	547	104.5 to 100;	or 51.12 and 48.88	in each 100 born.	
July-Sept.....	668	625	106.8 to 100;	or 51.66 and 48.34	in each 100 born.	
Oct.-Dec.....	629	619	101.6 to 100;	or 50.40 and 49.60	in each 100 born.	
Whole year.....	2,525	2,410	104.7 to 100;	or 51.16 and 48.84	in each 100 born.	

The following table shows the same facts for the 48 years, 1856-1903, inclusive:

	Males.	Females.	Males.	Females.	Males.	Females.
Jan.-March.....	16,825	15,930	105.6 to 100;	or 51.36 and 48.64	in each 100 born.	
April-June.....	16,849	16,012	105.2 to 100;	or 51.27 and 48.73	in each 100 born.	
July-Sept.....	17,718	16,933	104.6 to 100;	or 51.13 and 48.87	in each 100 born.	
Oct.-Dec.....	17,806	16,963	104.9 to 100;	or 51.21 and 48.79	in each 100 born.	
Forty-eight years.....	69,198	65,838	105.1 to 100;	or 51.24 and 48.76	in each 100 born.	

The following table shows the relative proportion of the sexes for the fifty years, 1854 to 1903; it is given by periods of five years, from 1854 to 1898. The whole number of children born during the fifty years was 133,070:

TABLE XVI. (Table II previous to 1898.) BIRTHS,
1854 to 1903. *Proportion of the Sexes.*

	Males.	Females.	Males.	Females.	Males.	Females.
1854-1858.....	4,171....	3,885, or 107.4 to 100; or 51.77 and 48.23 in each 100 born.				
1859-1863.....	4,050....	3,752, or 107.9 to 100; or 51.91 and 48.09 in each 100 born.				
1864-1868.....	3,977....	3,787, or 105.0 to 100; or 51.22 and 48.78 in each 100 born.				
1869-1873.....	5,056....	4,946, or 102.2 to 100; or 50.55 and 49.45 in each 100 born.				
1874-1878.....	6,817....	6,428, or 106.0 to 100; or 51.47 and 48.53 in each 100 born.				
1879-1883.....	7,037....	6,619, or 106.3 to 100; or 51.53 and 49.47 in each 100 born.				
1884-1888.....	7,681....	7,266, or 105.7 to 100; or 51.40 and 48.60 in each 100 born.				
1889-1893.....	9,437....	9,209, or 102.4 to 100; or 50.62 and 49.38 in each 100 born.				
1894-1898.....	10,636....	10,106, or 105.2 to 100; or 51.28 and 48.72 in each 100 born.				
1899.....	2,178....	2,115, or 103.0 to 100; or 50.73 and 49.27 in each 100 born.				
1900.....	2,301....	2,202, or 104.5 to 100; or 51.10 and 48.90 in each 100 born.				
1901.....	2,484....	2,212, or 112.3 to 100; or 52.89 and 47.11 in each 100 born.				
1902.....	2,366....	2,353, or 100.5 to 100; or 50.14 and 49.86 in each 100 born.				
1903.....	2,525....	2,410, or 104.7 to 100; or 51.16 and 48.84 in each 100 born.				
50 years.....	70,716....	67,289, or 105.0 to 100; or 51.24 and 48.76 in each 100 born.				

The statistics for each year from 1854 to 1882, inclusive, will be found in the report for 1882, page 5; for 1883, in the report for that year, page 3; for the years 1884 to 1888, inclusive, in the report for 1889, page 3; for the years 1889 to 1893, in the report for 1893, page 8; and for the years 1894 to 1898, in the report for 1901, page 87.

Color. The number of colored children born in 1903 was reported as 122; this was 1 less than in the preceding year. The number of colored persons in the city estimated according to the ratio shown by the United States census of 1900 was 5,100* and the ratio of births in this class would therefore be 23.92 per thousand, or 1 to each 41.80 colored inhabitants.

The number in each month and quarter was:

January.....	15	April.....	5	July.....	13	October.....	15
February.....	11	May.....	12	August.....	8	November.....	8
March.....	11	June.....	6	September.....	9	December.....	9
1st quarter.....	37	2d quarter.....	23	3d quarter.....	30	4th quarter.....	32

* Persons of negro and Indian descent, and not including orientals.

There were 66 males and 56 females among the colored children born in 1903, a proportion of 117.8 males to each 100 females; or 54.09 males and 45.91 females in each 100 children.

The births, marriages, and deaths among the colored population are given in the next table, in periods of five years, from 1856 to 1900, for each year since 1900, and for the whole period of forty-eight years. The figures for the single years may be found in the reports for 1882, 1885, 1890, 1895 and 1902:

	Births.	Marriages.	Deaths.
1856-1860.....	222.....	75.....	287
1861-1865.....	228.....	117.....	291
1866-1870.....	421.....	241.....	365
1871-1875.....	512.....	257.....	543
1876-1880.....	511.....	238.....	529
1881-1885.....	565.....	273.....	558
1886-1890.....	581.....	302.....	632
1891-1895.....	603.....	281.....	716
1896-1900.....	640.....	342.....	625
1901.....	155.....	75.....	148
1902.....	123.....	85.....	160
1903.....	122.....	90.....	170
48 years.....	4,683.....	2,376.....	5,004

The proportion of deaths to births among the colored population in 1903 was 139.3 to 100; in the forty-eight years, 1856 to 1903, the proportion was 106.8 deaths to each 100 births.

PARENTAGE.

The following table gives statistics as to the parentage of the children born in the city; the facts are interesting and important, as showing the variety of nationalities represented and the proportion of each class.

Table XVII shows how many children of each class were born in each month, and the number and percentage of each class for the whole year. The *parentage* is reckoned according to the *birthplace of the father*.

TABLE XVII. (Table III in Reports previous to 1898.)
BIRTHS, 1903. *Season and Parentage.*

BIRTHPLACES OF FATHERS.	MONTHS.												Whole Year.	In each 100 born there were—
	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.		
America (mother American).....	113	133	124	99	111	99	129	134	125	123	131	117	1,438	29.14
America (mother foreign).....	37	30	27	23	36	23	36	40	28	29	38	37	384	7.78
Foreign countries (mother Amer'n)	41	29	51	39	30	42	40	27	34	27	34	37	431	8.73
Ireland.....	43	45	37	27	39	37	44	49	33	38	39	40	471	9.55
Great Britain.....	20	20	15	22	20	16	20	20	24	22	19	14	232	4.70
Germany.....	4	1	4	2	5	5	4	4	7	....	3	5	44	.89
British America...	10	6	4	8	5	12	8	7	3	10	3	8	84	1.70
French Canada....	22	17	17	12	9	17	14	19	13	18	12	16	186	3.77
Portugal and West- ern Islands.....	13	8	14	6	11	9	11	5	14	9	6	18	124	2.51
Sweden.....	14	9	11	10	8	14	12	10	8	9	7	11	123	2.49
Norway.....	2	1	....	....	1	1	....	....	....	....	2	1	8	.16
Russia.....	22	19	21	22	10	18	28	11	22	19	12	26	230	4.66
Poland.....	3	6	4	4	3	3	7	....	2	5	5	4	46	.93
Italy.....	66	62	86	70	67	69	82	70	84	88	75	74	893	18.10
Austria.....	3	4	3	1	3	4	5	2	3	6	4	1	39	.79
Armenia.....	5	....	3	4	4	1	....	3	1	3	1	1	26	.53
Roumania.....	....	....	4	....	1	1	4	2	2	....	3	3	20	.41
Turkey.....	1	1	....	1	1	....	2	1	1	1	1	3	13	.27
West Indies.....	1	1	....	1	....	1	....	....	1	....	1	2	8	.16
France.....	1	....	....	....	1	....	1	1	....	2	....	....	6	.12
Hungary.....	1	....	1	....	....	....	....	1	....	1	....	1	5	.10
Syria.....	....	....	....	3	....	2	....	....	....	....	....	....	5	.10
Switzerland.....	....	....	1	1	1	....	....	1	....	....	....	....	4	.06
Finland.....	1	1	....	....	....	....	....	....	....	1	1	....	4	.08
Greece.....	....	....	....	....	2	1	....	1	....	....	....	....	4	.06
Denmark.....	....	....	....	....	....	....	1	....	1	....	....	1	3	.06
Belgium.....	....	....	....	1	....	....	....	....	....	....	....	1	2	.04
Holland.....	1	....	....	....	....	....	....	....	....	1	....	....	2	.04
Australia.....	....	....	2	....	....	....	....	....	....	....	....	....	2	.04
Bohemia.....	....	....	....	....	....	....	....	....	1	....	....	....	1	.02
Total foreign....	233	201	227	196	190	211	244	207	220	233	194	230	2,585	5.238
Father unknown, mother Amer'n.	7	7	8	4	7	5	8	5	3	3	2	3	62	1.26
Father unknown, mother foreign.	3	2	2	4	....	1	2	5	5	1	3	4	32	.65
American father, mother unkno'n.	....	....	....	....	....	....	....	....	1	....	1	....	2	.04
Both parents un- known.....	....	....	....	....	....	....	....	....	....	....	1	....	1	.02
Totals.....	434	402	439	364	374	381	459	418	416	416	404	428	4,935	100.00

The statement given below shows the number and percentage of children of American, foreign, and mixed parentage since 1856. From 1856 to 1900 the statistics are given by periods of five years; then they are given for each year since 1900, and for the whole period of forty-eight years.

Years.	American.		Foreign.		Am. father. For. mother.		For. father. Am. mother.	
	Number.	Per ct.	Number.	Per ct.	Number.	Per ct.	Number.	Per ct.
1856-1860.....	3,327	39.95	4,424	53.10	292	3.51	285	3.42
1861-1865.....	2,706	37.57	3,909	52.88	352	4.89	336	4.66
1866-1870.....	3,702	41.92	4,118	46.64	447	5.06	563	6.38
1871-1875.....	4,722	40.23	5,353	45.61	693	5.90	979	8.26
1876-1880.....	5,173	39.95	5,587	43.22	929	7.17	1,251	9.66
1881-1885.....	5,876	40.81	5,786	40.18	1,215	8.44	1,523	10.57
1886-1890.....	5,884	37.62	6,686	42.74	1,474	9.42	1,598	10.22
1891-1895.....	6,338	31.02	9,755	47.75	1,867	9.14	1,835	8.96
1896-1900.....	6,191	29.06	10,875	51.27	1,939	9.11	1,836	8.62
1901.....	1,311	27.92	2,440	51.96	418	8.90	427	9.09
1902.....	1,370	29.03	2,411	51.09	419	8.88	425	9.01
1903.....	1,438	29.14	2,585	52.38	384	7.78	431	8.73
48 years.....	48,038	35.57	63,839	47.28	10,429	7.72	11,479	8.59

For fuller particulars for each year, see reports for 1882, page 9; 1885, page 7; 1890, page 8; 1895, page 8, and for 1901, page 91.

The figures since 1891, however, do not include the whole number of births for those years, as there were in each year a number of cases where the birthplace of one or both parents was not stated. These are as follows:

	Number.	Per cent.
1891.....	82	2.06
1892.....	94	2.39
1893.....	113	2.71
1894.....	107	2.59
1895.....	115	2.77
1896.....	98	2.38
1897.....	81	1.97
1898.....	76	1.79
1899.....	109	2.54
1900.....	86	1.91
1901.....	100	2.12
1902.....	94	1.99
1903.....	97	1.97

The same is true of the total for forty-eight years, the 1,252 cases being 0.93 per cent. of the whole number of births during that period.

The percentage of children born in Providence of parents of each nation is as follows for each of the forty-eight years, 1856-1903, inclusive:

	English.		British		French		Swedish &		Other	
	American.	Irish.	S. & W.	German.	Am.	Can.	Portu.	Norw'n.	Italian.	For'n.
	Per ct.	Per ct.	Per ct.	Per ct.	Per ct.	Per ct.	Per ct.	Per ct.	Per ct.	Per ct.
1856	42.08	41.79	4.84	2.27	.....	.....	.....	.....	.....	2.27
1857	38.51	44.32	5.92	3.73	.....	.....	.....	.....	.....	1.54
1858	41.30	42.98	4.82	2.26	.....	.....	.....	.....	.....	1.33
1859	37.60	45.68	5.34	3.26	.....	.....	.....	.....	.....	1.51
1860	40.11	40.96	6.55	2.85	.....	.....	.....	.....	.....	1.64
1861	37.91	42.61	6.08	2.49	.....	.....	.....	.....	.....	1.97
1862	38.52	41.53	6.02	3.07	.....	.....	.....	.....	.....	1.64
1863	35.78	43.08	6.35	2.98	.....	.....	.....	.....	.....	1.99
1864	38.69	41.36	6.55	2.75	.....	.....	.....	.....	.....	1.34
1865	36.67	42.99	5.93	1.85	.....	.....	.....	.....	.....	1.93
1866	40.20	39.52	6.25	2.21	.....	.....	.....	.....	.....	2.32
1867	39.72	37.81	5.66	3.02	.....	.....	.....	.....	.....	2.21
1868	41.75	36.01	6.48	1.88	1.07	.....	.....	.....	.....	1.07
1869	45.19	34.14	4.01	1.81	1.32	.....	.....	.....	.....	1.38
1870	42.35	34.68	6.19	1.96	1.91	.....	.....	.....	.....	.90
1871	44.85	32.25	4.54	1.63	2.09	.....	.....	.....	.....	1.73
1872	41.12	32.46	5.67	2.77	2.31	.....	.....	.....	.....	2.31
1873	40.84	30.50	7.19	1.88	2.49	.....	.....	.....	.....	2.16
1874	38.42	32.63	8.13	2.34	2.19	.....	1.22	.....	.....	1.19
1875	37.50	31.53	7.60	2.85	2.67	.....	.98	.....	.....	1.43
1876	38.27	31.05	7.75	2.59	2.89	.....	1.22	.....	.....	1.25
1877	41.45	28.06	6.96	1.96	2.56	.....	1.10	.....	.....	1.30
1878	39.40	29.65	6.74	2.55	2.86	.....	1.18	.....	.....	1.71
1879	40.80	27.04	6.82	1.98	2.54	.....	.96	.....	.....	1.70
1880	39.90	26.15	7.50	1.67	3.27	.....	1.60	.....	.....	1.33
1881	40.71	23.19	9.34	2.03	3.00	.....	1.07	.....	.....	2.43
1882	41.10	21.99	8.72	1.97	4.16	.....	1.08	.....	.....	2.98
1883	40.67	21.23	9.02	2.67	3.05	.....	.79	.....	.....	2.23
1884	41.00	20.87	8.66	2.50	3.15	.....	1.25	.....	.....	3.35
1885	40.56	20.37	8.99	2.45	3.54	.....	1.64	.....	.....	3.27
1886	40.71	19.02	8.85	2.13	4.36	.....	1.66	.....	.....	4.49
1887	37.56	19.54	10.23	2.43	4.18	.....	2.06	1.04	1.62	1.32
1888	39.70	17.47	9.20	1.76	3.86	.....	1.95	1.53	2.81	2.14
1889	35.73	19.77	9.78	2.33	3.94	.....	1.23	1.52	2.62	2.90
1890	34.82	17.44	10.15	1.76	5.18	.....	2.31	1.99	4.30	2.88
1891	33.59	16.17	9.19	1.90	1.57	3.67	2.17	2.79	4.50	3.49
1892	30.30	17.09	8.82	1.95	1.50	3.35	2.89	2.45	5.17	4.57
1893	30.58	15.85	9.27	2.36	2.11	3.65	2.07	3.15	6.51	4.65
1894	30.57	15.50	8.56	2.10	2.14	3.44	2.34	3.02	7.34	4.20
1895	31.08	15.83	7.99	1.96	1.93	2.58	2.00	3.41	7.68	5.18
1896	29.24	14.55	7.61	1.60	2.18	3.61	2.04	3.88	9.14	6.47
1897	29.45	14.23	6.80	1.73	1.82	3.26	2.31	4.08	10.44	6.19
1898	29.72	14.26	6.73	2.05	1.74	3.51	2.10	3.86	10.05	6.38
1899	28.14	13.16	7.01	1.87	2.05	3.59	2.17	3.71	11.46	6.90
1900	28.89	11.66	5.93	1.42	1.93	3.62	2.13	3.40	13.26	7.57
1901	27.92	10.88	5.32	1.00	2.21	3.41	2.92	2.81	14.72	8.69
1902	29.03	10.43	4.62	1.15	1.72	3.20	2.63	3.30	15.64	8.40
1903	29.14	9.55	4.70	0.89	1.70	3.77	2.51	2.65	18.10	8.51

The British-Americans were included in the "other foreign" until 1868; the Portuguese, until 1874, the Swedish, Italian, and Norwegian, until 1887. In 1891 the French-Canadians were first reckoned separately from natives of the other British Provinces.

Table XVIII shows the parentage of the children more exactly by giving the birthplace of both parents:

TABLE XVIII. (Table IV previous to 1898.) BIRTHS, 1903. *Parentage.*

BIRTHPLACES OF FATHERS.	BIRTHPLACES OF MOTHERS.											Whole number according to father's birthplace.
	United States.	Ireland.	Great Britain.	Germany.	British America.	French Canada.	Portugal and Western Islands.	Sweden and Norway.	Russia and Poland.	Italy.	Other countries.	Unknown.
United States.....	1,438	144	110	11	59	43	1	7	1		8	1,884
Ireland.....	107	436	28		7							578
Great Britain.....	126	29	184	3	11	2		1			2	358
Germany.....	13		2	35						1	6	57
British American.....	63	11	8		51	12		2				147
French Canada.....	48	5	3		10	166					2	234
Portugal & Western Islands	16	1		1			120	1			1	149
Sweden and Norway.....	7							126			5	138
Russia and Poland.....	11		1	6	2				251		16	287
Italy.....	28		3		1				2	837		871
Other Countries.....	12	5	2	2	1			3	15		116	158
Unknown.....	62	11	1	1	5	1	2	7	3		1	95
Whole number according to mother's birthplace.....	1,931	642	342	59	147	224	123	147	273	837	157	3,495

The 1,438 children whose parents were both born in the United States were 29.14 per cent. of all the children born during the year. There were, in addition to these, 384 children whose fathers were born in the United States and the mothers in some foreign country and 2 whose fathers were born in the United States, the mother's birthplace being unknown; there were, therefore, 1,824 children of American fathers, or 36.96 per cent. of all. There were also 431 children whose fathers were foreign and the mothers American; and 62 where the mother was American, the father's birthplace being unknown; a total of 1,931 children of American mothers, or 39.13 per cent. of all.

The children of the two classes of mixed parentage numbered 815, or 16.51 per cent. of all the children born during the year. The children of purely foreign parentage in 1903 numbered 2,585, or 52.38 per cent. of all.

NUMBER OF THE CHILD.

The following table, XIX. (Table V previous to 1898), shows how many of the children born in 1903 were the first, second, third, etc., children of their mothers; also, the same statistics for the children born during the forty-nine years, 1855-1903:

NUMBER OF CHILD.		1903.			49 years, 1855-1903.
		American.	Foreign.	Total.	
<i>First</i>	child of mother.....	713	702	1,415	34,797
<i>Second</i>	" " "	388	562	950	27,500
<i>Third</i>	" " "	252	428	710	21,061
<i>Fourth</i>	" " "	176	349	525	15,941
<i>Fifth</i>	" " "	115	287	402	11,807
<i>Sixth</i>	" " "	83	223	306	8,550
<i>Seventh</i>	" " "	57	152	209	6,079
<i>Eighth</i>	" " "	37	103	140	4,072
<i>Ninth</i>	" " "	23	68	91	2,612
<i>Tenth</i>	" " "	15	46	61	1,759
<i>Eleventh</i>	" " "	10	21	31	1,000
<i>Twelfth</i>	" " "	14	21	35	644
<i>Thirteenth</i>	" " "	3	13	16	303
<i>Fourteenth</i>	" " "	2	7	9	148
<i>Fifteenth</i>	" " "		7	7	75
<i>Sixteenth</i>	" " "				30
<i>Seventeenth</i>	" " "				30
<i>Eighteenth</i>	" " "				6
<i>Nineteenth</i>	" " "				8
<i>Twentieth</i>	" " "				1
<i>Twenty-third</i>	" " "				2
Statistics imperfect, not tabulated.....		3	12	15	122
Whole number of children.....		1,931	3,001	4,932	136,617

Since 1891, when births in this table were first distributed according to parentage, the following facts were unknown in the number of instances stated. Therefore, in all tables on this subject, the statistics are imperfect, and the number of children does not correspond with the total number born.

	Birthplace of Mother Unknown.	Number of Child Unknown.
1881	9.....	2
1882	7.....	0
1883	5.....	13
1884	4.....	8
1885	2.....	5
1886	0.....	4
1887	5.....	5
1888	0.....	10
1889	0.....	4
1890	0.....	3
1901	3.....	11
1902	8.....	13
1903	3.....	15

The number of *first* children in 1903 was 1,415, or 28.67 per cent. of the 4,935 children born during the year. In the forty-nine years, 1855 to 1903, there were 136,636 children born; of this number 34,797, or 25.46 per cent., were the first children of their mothers.

Average Number of Children to each Mother. There were 52 plurality births in 1903, the number of mothers, therefore, was 4,883, but in tables XX and XXI the number of mothers for 1903 is given as only 4,865 (because of the defective statistics mentioned above); these 4,865 mothers had borne in all 16,412 children, an average of 3.37 children to each mother; the average number of children to American mothers was 2.86, to foreign mothers, 3.70.

The following table shows the average number of children to each mother in the forty-nine years, 1855-1903:

TABLE XX. (Table VI previous to 1898.) BIRTHS,
1855 to 1903.*Average Number of Children to Each Mother.*

Years.	No. of Mothers.	No. of Children.	Total No. of Children.	Average.	
1855-1859.....	8,186.....	8,280.....	27,815.....	3.40	children to each mother.
1860-1864.....	7,465.....	7,553.....	26,784.....	3.59	children to each mother.
1865-1869.....	8,126.....	8,239.....	28,158.....	3.47	children to each mother.
1870-1874.....	10,812.....	10,963.....	35,602.....	3.29	children to each mother.
1875-1879.....	12,850.....	12,987.....	44,955.....	3.50	children to each mother.
1880-1884.....	13,937.....	14,090.....	49,881.....	3.58	children to each mother.
1885-1889.....	14,995.....	15,161.....	52,356.....	3.49	children to each mother.
1890-1894.....	{ Am. 8,201..... For. 11,121.....	{ 8,281..... 11,282.....	{ 25,093..... 39,210.....	{ 3.07 3.52	{ children to each mother.
1895.....	{ Am. 1,685..... For. 2,411.....	{ 1,701..... 2,436.....	{ 5,202..... 8,663.....	{ 3.09 3.60	{ children to each mother.
1896.....	{ Am. 1,589..... For. 2,482.....	{ 1,607..... 2,514.....	{ 4,733..... 8,912.....	{ 2.96 3.59	{ children to each mother.
1897.....	{ Am. 1,600..... For. 2,456.....	{ 1,618..... 2,491.....	{ 4,957..... 9,137.....	{ 3.10 3.72	{ children to each mother.
1898.....	{ Am. 1,664..... For. 2,524.....	{ 1,679..... 2,561.....	{ 5,112..... 9,693.....	{ 3.07 3.94	{ children to each mother.
1899.....	{ Am. 1,613..... For. 2,624.....	{ 1,631..... 2,668.....	{ 5,028..... 10,022.....	{ 3.12 3.82	{ children to each mother.
1900.....	{ Am. 1,758..... For. 2,693.....	{ 1,773..... 2,727.....	{ 5,330..... 10,473.....	{ 3.03 3.89	{ children to each mother.
1901.....	{ Am. 1,786..... For. 2,845.....	{ 1,798..... 2,894.....	{ 5,281..... 10,518.....	{ 2.96 3.70	{ children to each mother.
1902.....	{ Am. 1,824..... For. 2,818.....	{ 1,844..... 2,854.....	{ 5,344..... 10,631.....	{ 2.93 3.77	{ children to each mother.
1903.....	{ Am. 1,912..... For. 2,953.....	{ 1,928..... 2,989.....	{ 5,471..... 10,941.....	{ 2.86 3.70	{ children to each mother.
49 years.....	134,921.....	136,499.....	465,302.....	3.45	children to each mother.

TABLE XXI. (Table VII previous to 1898.) BIRTHS, 1903.

Number of Child with Age of Mother.

AMERICAN MOTHERS.

AGES OF THE MOTHERS IN YEARS.	NUMBER OF THE CHILD.														Number of mothers at each age.	Children they bore in 1903.	Total children they had borne.	Average number of Chil- dren to mothers at each age.
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	Eighth.	Ninth.	Tenth.	Eleventh.	Twelfth.	Thirteenth.	Fourteenth.				
16.....	6	...	1	...	...	...	...	...	...	...	...	...	...	...	7	7	9	1.28
17.....	13	1	...	...	...	...	...	...	...	...	...	...	...	...	14	14	15	1.07
18.....	25	2	1	...	...	...	...	...	...	...	...	...	...	...	28	28	32	1.14
19.....	55	10	1	...	...	...	...	...	...	...	...	...	...	...	66	66	78	1.18
20.....	*49	22	4	...	...	...	...	...	...	...	...	...	...	...	74	75	104	1.40
21.....	52	18	9	2	...	...	...	...	...	...	...	...	...	...	81	81	123	1.51
22.....	62	27	16	6	...	...	...	...	...	...	...	...	...	...	111	111	188	1.69
23.....	62	36	14	5	...	...	...	...	...	...	...	...	...	...	119	119	207	1.74
24.....	*65	*31	17	5	3	...	...	...	...	...	...	...	...	...	120	122	216	1.80
25.....	56	32	20	11	3	1	...	...	...	...	...	...	...	...	123	123	245	1.99
26.....	*55	32	29	10	6	6	...	...	...	...	...	...	...	...	133	134	287	2.15
27.....	37	23	20	10	*10	...	...	...	...	...	...	...	...	...	106	107	272	2.56
28.....	40	31	29	15	8	8	...	...	...	...	...	...	...	...	132	132	346	2.62
29.....	29	25	*21	*10	16	8	5	...	...	...	...	...	...	...	110	111	323	2.93
30.....	*19	30	*21	18	*12	*7	5	...	...	...	...	...	...	...	101	105	346	3.42
31.....	17	*21	17	10	8	8	3	1	...	...	...	...	...	...	80	81	246	3.07
32.....	14	30	17	12	10	8	7	2	1	...	...	...	...	...	91	91	352	3.86
33.....	*17	18	13	16	5	11	12	2	2	...	...	...	...	...	91	95	356	3.78
34.....	5	5	12	10	3	3	2	2	1	...	...	...	...	...	52	52	229	4.40
35.....	*8	7	4	9	9	9	*5	5	5	1	...	...	...	...	55	57	256	4.65
36.....	6	10	8	6	3	4	3	5	4	3	1	...	...	...	53	54	236	4.45
37.....	6	...	3	5	3	3	3	6	...	*3	...	...	...	...	34	34	189	5.56
38.....	8	...	5	4	...	...	6	3	...	...	2	...	...	...	39	39	205	5.25
39.....	1	2	1	2	3	3	1	3	3	...	3	...	...	...	23	23	157	6.82
40.....	2	1	3	5	5	2	2	2	3	...	3	...	...	...	25	26	152	6.08
41.....	2	1	...	...	...	1	1	1	1	...	1	...	...	...	11	11	169	6.27
42.....	1	...	2	1	2	2	1	1	1	...	1	3	5	...	17	17	145	8.53
43.....	1	...	...	1	...	1	...	1	...	...	...	...	...	...	5	5	31	6.20
44.....	...	...	...	...	...	1	...	...	...	...	1	...	...	...	4	4	30	7.50
45.....	...	...	...	...	...	...	1	...	...	...	1	...	...	...	2	2	18	9.00
46.....	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	1	7	7.00
47.....	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	1	2	1.00
Totals.....	713	398	282	176	115	83	57	37	23	15	10	14	3	2	1,912	1,928	5,471	2.86

* One of these mothers bore twins.

TABLE XXI. (Table VII Previous to 1898.) BIRTHS,
1903.*Number of Child with Age of Mother.*

FOREIGN MOTHERS.

AGES OF THE MOTHERS IN YEARS.	NUMBER OF THE CHILD.															Number of Mothers at each age.	Children they bore in 1903.	Total Children they had borne.	Average number of children to mothers at each age.
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	Eighth.	Ninth.	Tenth.	Eleventh.	Twelfth.	Thirteenth.	Fourteenth.	Fifteenth.				
16.....	4															4	4	4	1.00
17.....	10	1														11	11	12	1.09
18.....	138	6	1	1												44	46	55	1.25
19.....	34	20	4													57	58	84	1.47
20.....	57	24	10	1		1										93	93	145	1.56
21.....	43	36	12	1												92	92	155	1.68
22.....	68	41	10	12	1	1										133	133	239	1.79
23.....	*66	*61	25	11	1	2	1									165	167	328	1.98
24.....	*69	44	*26	18	5	2										162	164	340	2.09
25.....	*63	61	35	20	9	2										189	190	426	2.25
26.....	47	139	41	32	12	6	2	1								178	180	490	2.75
27.....	66	43	40	25	18	4	1									197	197	493	2.50
28.....	*35	46	*49	*30	16	8	6	1								188	191	564	3.00
29.....	22	22	36	21	20	*16	5	1	1							143	144	500	3.49
30.....	19	31	34	*28	30	19	15	3	2	1						181	182	712	3.93
31.....	10	11	12	15	*23	17	6	4	2	1	1					100	101	443	4.43
32.....	*11	23	*21	26	25	19	15	7	5	1						149	153	661	4.43
33.....	7	14	20	24	22	19	6	*11	3	1	1					127	128	585	4.60
34.....	*10	13	19	19	13	*19	21	8	6	2	2	1				130	133	662	5.09
35.....	6	7	8	19	26	16	8	9	8	5	1	1	1			114	114	620	5.43
36.....	4	7	8	9	10	17	9	9	4	6	2	3				88	88	519	5.89
37.....	3	4	2	10	13	15	*15	10	8	3	2	3	1	1		89	90	577	6.48
38.....	3	3	*4	17	17	*11	*15	*10	7	*7	2	3	1	2	1	85	92	577	6.78
39.....	2	3	2	6	8	7	9	6	4	6	3	2	2	2	2	62	62	438	7.06
40.....	2	5	4	9	*11	7	12	10	10	3	*2	1	1	3		77	79	576	7.48
41.....	1	1	3	2	5	5	3	1	1	2	1	1	1	1		25	25	180	1.20
42.....	1	1	1	3	*4	2	3	5	4	3	2	2	2	1	1	33	34	299	7.85
43.....					1	*2	2	2	2	1	1	2	1	1	1	14	15	135	9.04
44.....						1	1	1	1	1	1	1	1	1	1	6	6	64	10.66
45.....			1	2	1				1		1	1	1	1	1	6	6	39	6.50
46.....				1	1						1	1	1	1	1	3	3	22	7.66
48.....													1	1		1	1	14	14.00
50.....						1										1	1	6	6.00
Not stated.	2	1	1	1	1	1										6	6	17	2.83
Totals.....	702	562	428	349	287	223	152	103	68	46	21	21	13	7	7	2,953	2,989	10,941	3.70

* One of these mothers bore twins.

† Two of these mothers bore twins.

The reference marks in these tables indicate the number of the first child in the cases of plurality births; thus of American mothers at the age of 24 one bore twins which were her first and second children; one bore twins which were her second and third children; at the age of 36, one bore twins which were her ninth and tenth children. Of foreign mothers at the age of 26, two mothers bore twins which were their second and third children; at the age of 36, one bore twins which were her fourth and fifth children.

The number of mothers in 1903 who were under 20 years of age was 231, 115 American and 116 foreign, 4.75 per cent. of the 4,859 mothers of known age. This was 1.11 per cent more than the average for forty years and six months, the time during which a record of the ages of the mothers has been kept.

The number of mothers in 1903 who were 40 years old and over, was 232, 66 American and 166 foreign, or 4.77 per cent. of mothers of known age. This was 0.01 per cent. more than the average for forty years and six months.

The following table shows the number and percentage at different age periods of the 121,176 mothers whose ages have been recorded since July 1, 1863:

	Number of Mothers.	Per cent.
Under twenty years.....	4,406.....	3.64
Twenty, and under twenty-five.....	27,022.....	22.30
Twenty-five and under thirty.....	38,017.....	31.37
Thirty, and under thirty-five.....	28,423.....	23.46
Thirty-five, and under forty.....	17,541.....	14.47
Forty, and under forty-five.....	5,267.....	4.35
Forty-five and over.....	498.....	.41
Total.....	121,176.....	100.00

The average age of these 121,176 mothers is 28.78 years. This is 0.25 years more than the average age of the mothers of 1903, which was 28.53. The average age of *American* mothers in 1903, was 27.78 years; of *foreign* mothers, 29.00

years. The average age of the mothers for the period above mentioned is 5.52 years more than that of the brides for the last 48 years. The average age of the mothers for 1903 is 3.62 years more than that of the brides of the same year.

During this period of forty years and six months the number of children borne by mothers whose age was stated was 117,564; the number of children to mothers at each age was as follows:

Age of mother.	Children.	Age of mother.	Children.	Age of mother.	Children.
13.....	3	27.....	7,484	41.....	897
14.....	12	28.....	8,498	42.....	991
15.....	57	29.....	6,518	43.....	576
16.....	207	30.....	8,870	44.....	374
17.....	562	31.....	4,437	45.....	282
18.....	1,330	32.....	6,026	46.....	91
19.....	2,261	33.....	5,025	47.....	58
20.....	3,420	34.....	4,413	48.....	35
21.....	4,065	35.....	5,385	49.....	11
22.....	5,825	36.....	3,778	50.....	18
23.....	6,654	37.....	3,119	51.....	1
24.....	7,225	38.....	3,361	53.....	2
25.....	8,200	39.....	2,192	54.....	1
26.....	7,700	40.....	2,510	55.....	1
All known ages.....				122,475	

The 122,475 children were divided as follows to mothers of different age periods:

	Number of mothers.	Per cent.
Under twenty years.....	4,432	3.62
Twenty and under twenty-five.....	27,189	22.20
Twenty-five, and under thirty.....	38,400	31.35
Thirty, and under thirty-five.....	28,771	23.49
Thirty-five, and under forty.....	17,835	14.56
Forty, and under forty-five.....	5,348	4.37
Forty-five, and over.....	500	0.41
Total.....	122,475	100.00

PLURALITY BIRTHS.

The number of plurality births in 1903 was 52; 3 less than in 1902. These were all twin births.

Of the 104 children, 99 were living, and 5 were still-born, and are not counted among the births in any of the tables.

Season:

January.....	3	April.....	3	July.....	4	October.....	8
February.....	6	May.....	4	August.....	2	November.....	2
March.....	6	June.....	4	September.....	4	December.....	6
1st quarter.....	15	2d quarter....	11	3d quarter.....	10	4th quarter....	16

Sex. In 20 cases of twins both children were males; in 16 both were females; and in 16 there was one child of each sex. The still-born children were one male and four females. The whole number of living male children was 55, of females, 44.

Color. In one case the parents were colored, in all other cases they were white.

Parentage. The parentage of the 52 cases of twins was as follows:

American.....	12	Swedish.....	1
Italian.....	12	Russian.....	1
Irish.....	10	French Canadian and American.....	1
Irish and American.....	3	American and British American.....	1
British American.....	2	American and German.....	1
English and Irish.....	2	Irish and English.....	1
American and Irish.....	2	Austrian and Russian.....	1
French Canadian.....	1	German and Venezuelan.....	1

FORTY-NINE YEARS' SUMMARY OF PLURALITY BIRTHS.

In the forty-nine years, 1855 to 1903, there were 1,556 cases of plurality births in Providence; 1,539 of twins, 16 of triplets, and one of quadruplets.

Sex. In the case of quadruplets, all of the children were males.

Of the sixteen cases of triplets, in one case all of the children were males; in 7 cases all were females; and in 7 cases there were 2 male children and 1 female, and in 1 case, 1 male and 2 females; making 18 male and 30 female children in the 16 cases.

In the 1,539 cases of twins there were 518 where both children were males; in 501 cases both were females; and in 520 cases there was 1 male and 1 female child; omitting the still-born children, there were 1,536 males and 1,510 females.

In the 1,550 cases of plurality births, there were 1,558 male and 1,540 female children; a proportion of 98.8 females to 100 males; or 49.71 female, and 50.29 male children in each 100 born.

Color. In the cases of triplets and quadruplets, the parents were all white; of the 1,539 cases of twins, in 1,451 the parents were white, and in 88 they were colored.

Parentage. Of the quadruplets the father was American and the mother British-American.

Of the triplets, in 3 cases the parents were both American; in 6 cases, both were Irish; in 2 cases, both were German; in 2 cases, both Italian; in 1 the father was English and the mother Irish; in 1, the father Scotch and the mother Irish; and in 1, the father American and the mother Irish. There were but 3 American mothers in the 16 cases.

The parentage to the 1,539 cases of twins is shown in the following table, the first letter indicating the birthplace of the father, the second that of the mother:

A., American; I., Irish; E., English; S., Scotch; W., Welsh; G., German; B. A., British-American; F. C., French-Canadian; D., Dutch; P., Portuguese; It., Italian; Sw., Swedish; N., Norwegian; F., French; Br., Brazilian; R., Russian; Pol., Polish; W. I., West Indies; Aus., Austrian; B., Belgian; Aust., Australian; A. O., Atlantic Ocean; Rou., Roumanian; Arm., Armenian; Hun., Hungarian; Fin., Finnish; Ven., Venezuelan.

Parentage.	No.	Parentage	No.	Parentage.	No.	Parentage.	No.
A. and A.....	475	E. and A.....	21	B. A. and E.....	1	Swiss and I.....	1
I. and I.....	374	S. and A.....	3	A. and S.....	7	E. and Aust.....	1
E. and E.....	69	B. A. and A.....	12	F. and A.....	1	I. and F. C.....	1
S. and S.....	19	G. and A.....	5	W. I. and A.....	1	A. and F. C.....	3
G. and G.....	34	Sw. and A.....	2	N. and E.....	1	F. C. and A.....	4
W. and W.....	1	A. and I.....	56	It. and F.....	1	G. and Pol.....	1
B. A. and B. A.....	36	E. and I.....	23	I. and S.....	6	Sw. and E.....	1
F. C. and F. C.....	19	S. and I.....	4	E. and S.....	2	A. and W.....	1
D. and D.....	1	I. and G.....	2	E. and B. A.....	4	A. O. and A.....	1
N. and N.....	4	G. and I.....	1	I. and W.....	2	Bel. and A.....	1
P. and P.....	32	B. A. and I.....	8	A. and B. A.....	21	Pol. and G.....	1
It. and It.....	90	Sw. and I.....	1	I. and B. A.....	7	Unknown and Am.	3
Sw. and Sw.....	16	It. and I.....	2	F. and B. A.....	1	Rou. and Aus.....	1
P. and A.....	2	P. and I.....	1	S. and B. A.....	1	G. and Swiss.....	1
R. and R.....	32	A. and E.....	22	A. and Sw.....	1	Hun. and R.....	1
Pol. and Pol.....	8	I. and E.....	17	Aus. and R.....	2	A. and Fin.....	1
Br. and Br.....	1	S. and E.....	2	R. and E.....	1	A. and G.....	1
I. and A.....	50	B. A. and F. C...	1	B. and I.....	1	G. and Ven.....	1
Arm. and Arm....	1	N. and Sw.....	1	R. and Aus.....	1		
Aus. and Aus....	2	G. and E.....	1	Swiss and S.....	1	Totals	1,539

In the 1,539 cases of twin births, 581 mothers, or 37.75 per cent., were American; 472, or 30.67 per cent. were Irish,

and 486, or 31.58 per cent., were of other foreign nations. In the 1,556 cases of plurality births, 584 mothers were Amercian; this was 0.97 per cent. of the 60,388 American mothers who bore children during the 49 years, 1855 to 1903; 972 mothers were foreign, which was 1.31 per cent. of the 74,327 foreign mothers who bore children during the same period.

Proportion of plurality births to whole number. The following figures show the number and proportion of plurality births in 1903, and in the forty-nine years, 1855-1903.

	Single Births.	Twin.	Triplet.	Quadruplet.	Whole No. of Births.	Whole No. of Children.
48 years, 1855-1902.....	128,675.	1,487*	16	1	130,180	131,701
1903.....	4,831	52	0	0	4,883	4,935
49 years, 1855-1903.....	133,506	1,539	16	1	135,063	136,636

* A small error which had appeared in previous reports was corrected in 1903.

Proportion of cases of plurality births:

	Twins.	Triplets.	Quadruplets.
48 years, 1855-1902.....	1 in 87.5	1 in 8,136.2	1 in 130,180
1903.....	1 in 93.9		
49 years, 1855-1903.....	1 in 87.7	1 in 8441.4	1 in 135,063

Proportion of children of plurality births:

	Twins.	Triplets.	Quadruplets.
48 years, 1855-1902.....	1 in 44.3	1 in 2,743.7	1 in 32,925.2
1903.....	1 in 47.4		
49 years, 1855-1903.....	1 in 44.3	1 in 2,846.6	1 in 34,129.6

Proportion of plurality births by parentage. In the forty-nine years, 1855 to 1903, the whole number of births was 135,063. The following table shows the number of births of American, foreign, and mixed parentage, so far as known,

and the number and proportion of plurality births in each of these classes:

	Whole No. Births.	Plurality Cases.	1 in	Per ct.
American parents.....	48,196.....	478.....	100.8.....	0.99
Foreign parents.....	63,826.....	855.....	74.6.....	1.34
American father, foreign mother...	10,357.....	115.....	90.0.....	1.11
Foreign father, American mother..	11,434.....	105.....	108.8.....	0.91
Total.....	123,814.....	1,553.....	86.1	1.16

Of these 1,553 cases of plurality births during the forty-nine years, the 478 of American parentage were 30.78 per cent.; the 855 of foreign parentage were 55.05 per cent.; the 115 with American fathers and foreign mothers, 7.41 per cent., and the 105 with foreign fathers and American mothers, 6.76 per cent.

Illegitimacy. The number of illegitimate births recorded in Providence in 1903, was 90, or 1.82 per cent. of all the children born during the year. The actual number was undoubtedly somewhat greater than this.

Forty-eight of these births occurred at the Providence Lying-in,Hospital, and 4 at the Channing Hospital.

In 76 cases this was reported as the first child of the mother; in 8 cases the second child; in 3 cases the third child; in 1 case, the fourth; and in 2 cases the seventh.

The nativity of the mothers was as follows:

United States.....	59	Russia.....	3
Ireland.....	11	Western Islands	2
Sweden.....	5	Denmark.....	1
British Provinces.....	6	Germany.....	1
Norway.....	2		

The 59 mothers of American birth were 65.55 per cent. of all. Of these, 26, or 44.06 per cent. were born in Providence. Fourteen of the mothers, or 15.55 per cent., were colored.

The ages of the mothers were as follows:

Age.	No. of Mothers.	Age.	No. of Mothers.	Age.	No. of Mothers.
16.....	2	23.....	4	30.....	2
17.....	6	24.....	4	33.....	1
18.....	9	25.....	2	34.....	1
19.....	13	26.....	8	38.....	2
20.....	8	27.....	2	39.....	1
21.....	13	28.....	2		—
22.....	9	29.....	1	Total.....	59

STILL-BORN.

There were 252 still-born children in Providence in 1903; this was 36 more than in 1902, and was 5.10 per cent. of the 4,935 children born in 1903, or one in 19.58.

Sex. Males, 157; females, 95.

Color. White, 239; colored, 13.

Season. January, 26; February, 19; March, 15; April, 21; May, 25; June, 14; July, 26; August, 20; September, 27; October, 20; November, 14; December, 25.

The number and proportion in each quarter were:

	Number.	Per cent.		Number.	Per cent.
First quarter.....	60	23.81	Third quarter.....	73	28.97
Second quarter.....	60	23.81	Fourth quarter.....	59	23.41

Parentage. The following table shows the parentage of the 252 still-born children in 1903; the first letter representing the birthplace of the father, the second that of the mother:

A., American; I., Irish; E., English; G., German; B. A., British-American; F. C., French-Canadian; P., Portuguese; Sw., Swedish; It., Italian; R., Russian; Pol., Polish; Aus., Austrian; Unk., Unknown; Dan., Danish; N., Norwegian; W. I., West Indian; T., Turkish; F., French; Syr., Syrian; E. I., East Indian.

A. and A .....77	S. and S 3	E. and A 7	R. and Aus..... 1
I and I .....21	Aus. and Aus.... 2	A. and F..... 1	Pol. and Aus.... 1
E. and E .....14	F. and F 1	I. and E 1	N. and Sw..... 1
G. and G 2	W. I. and W. I... 1	F. C. and A 3	E. and S 2
B. A. and B. A... 2	A. and I .....14	T. and T 1	Unk. and A..... 6
F. C. and F. C... 8	A. and E 5	B. A. and A 1	A. and F. C..... 2
Sw. and Sw 4	A. and B. A. 4	E. I. and E 1	F. and F. C..... 1
It. and It .....41	A. and S 2	B. A. and I 1	Unk. and I 1
P. and P 2	Syr. and Syr..... 1	It. and A 1	Aus. and A 1
R. and R .....11	I. and A 1	A. and Sw. 1	P. and A 2
			Total .....252

The number and proportion of children borne by mothers of different nativities, so far as known, in 1903, were as follows:

	Number of children.	Per cent.
American mothers.....	1,931	39.15
Irish mothers.....	642	13.62
Other foreign mothers.....	2,359	47.83
Total.....	4,932	100.00

The next table shows the same facts concerning the 252 still-born children in 1903:

	Still-born children.	Per cent.
American mothers.....	99	39.39
Irish mothers.....	37	14.68
Other foreign mothers.....	116	46.03
Total.....	252	100.00

The proportion of still-born children to the whole number of children borne by mothers of each class in 1903, is shown by the following table:-

	Whole number of children.	Still-born children.	Percentage of still-born.	Or 1 in
American mothers.....	1,931.....	99.....	5.13.....	19.51
Irish mothers.....	642.....	37.....	5.76.....	17.35
Other foreign mothers.....	2,359.....	116.....	4.92.....	20.34
Totals.....	4,932.....	252.....	5.11.....	19.57

Previous to 1889 all cases of premature birth, when the child lived less than one week, were classified as still-births. These data have recently been revised and all such cases have been taken from the still-births and added to the deaths.

As the figures now stand and as they are given in Table XXII, there have been during the 48 years, 1856 to 1903, 6,551 still-births. The whole number of children born (excluding still-births) was 132,605; of still-born, 6,551, or 4.94 per cent., or one in 20.24.

It was impossible in the time available, and perhaps it will never prove possible to distribute these births formerly classed as still-births, according to sex, color and parentage. Hence in the following table the figures as they appeared in former reports are still included.

Of the 7,258 children previously classed as still-born, 6,848 were white, and 410 colored; 4,194, or 57.78 per cent, were males and 3,064, or 42.22 per cent. were females.

The following statement shows the whole number of children borne by mothers of different nativities during the 48 years, 1856-1903, inclusive; also the number of still-born children to mothers of each class, and the percentage of the latter to the whole number of children:

	Whole number of children.	Still-born children.	Percentage of still-born.	Or in 1
American mothers.....	60,276.....	3,166.....	5.25.....	19.03
Irish mothers.....	36,746.....	2,365.....	6.44.....	15.54
English, Scotch, or Welsh mothers.....	12,086.....	670.....	5.54.....	18.04
German mothers.....	2,744.....	97.....	3.53.....	28.29
British-American mothers*.....	7,822.....	321.....	4.10.....	24.37
Other foreign mothers.....	15,316.....	628.....	4.10.....	24.39
Unknown.....	46.....	11.....	23.91.....	4.18
Total	135,036.....	7,258.....	5.37.....	18.60

* Including French-Canadian.

Reckoned by the fathers' birthplaces, 3,183, or 43.85 per cent. of the 7,258 still-born children were American; 2,201, or 30.33 per cent., were Irish, and 1,802, or 24.83 per cent. were children of other foreign fathers; of 72, or 0.99 per cent., the parentage was not stated.

GENERAL SUMMARY.

The following recapitulatory table gives the general results of Registration in Providence during the forty-nine years, 1855 to 1903, inclusive.

TABLE XXII. BIRTHS, STILL-BIRTHS, MARRIAGES AND DEATHS.

YEAR.	Population.	Living Births.	Still Births.	Of population one living birth to	Living births to each 1,000.	Marriages.	Of population one person married in	Persons married in each 1,000.	Deaths.	Of population one death in	Deaths in each 1,000.
1855.....	47,785	1,338	79	31.07	32.19	640	37.33	26.79	974	49.06	20.38
1856.....	48,727	1,389	96	30.66	32.61	660	36.91	27.09	1,080	45.12	22.16
1857. . .	49,457	1,610	85	30.71	32.55	629	39.31	25.43	937	52.78	18.95
1858.....	49,457	1,663	71	29.74	33.63	661	44.08	26.69	1,030	48.01	20.83
1859.....	50,100	1,833	70	32.68	30.60	631	40.34	24.79	912	54.33	18.20
1860.....	50,666	1,584	74	31.98	31.26	632	40.08	24.95	1,018	49.77	20.09
1861.....	50,666	1,660	86	30.52	32.76	545	46.22	21.63	1,060	47.79	20.82
1862.....	52,238	1,458	82	35.82	27.91	553	47.23	21.17	921	56.72	17.63
1863.....	53,024	1,251	64	42.38	23.59	611	43.39	23.05	1,226	43.25	23.12
1864.....	53,810	1,295	57	41.55	24.07	741	36.31	27.54	1,296	41.62	24.08
1865.....	54,595	1,265	79	43.16	23.17	715	38.18	26.19	1,222	44.67	22.38
1866.....	55,709	1,582	66	35.21	28.39	822	33.89	29.51	1,061	52.50	19.05
1867.....	56,824	1,569	69	35.76	27.96	866	32.81	30.48	977	58.16	17.19
1868.....	64,138	1,801	97	35.61	28.08	880	35.87	27.44	1,129	56.81	17.60

* U. S. Census.

† State Census.

‡ City Census.

GENERAL SUMMARY.—CONTINUED.

YEAR.	Population.	Living Births.	Still Births.	Of population one living birth to	Living births to each 1,000.	Marriages.	Of population one person married in	Persons married in each 1,000.	Deaths.	Of population in one death	Deaths in each 1,000.
1869.....	66,622	1,743	88	38.16	26.20	945	35.20	28.41	1,276	52.13	19.18
1870.....	*68,904	1,808	109	38.11	26.24	972	35.44	28.21	1,291	53.37	18.74
1871.....	72,011	1,900	87	37.90	26.38	984	37.35	26.77	1,280	56.28	17.77
1872.....	75,118	2,112	118	35.56	28.11	1,117	33.62	29.74	1,629	46.11	21.69
1873.....	78,225	2,031	130	38.51	25.96	1,173	33.34	29.99	1,744	44.85	22.29
1874.....	**86,452	2,652	152	36.37	27.49	1,200	40.19	24.88	2,019	47.77	20.83
1875.....	†100,675	2,544	141	39.97	25.27	1,093	46.05	21.71	1,945	51.76	19.32
1876.....	101,511	2,534	125	40.06	24.96	969	52.38	19.09	1,869	53.73	18.60
1877.....	101,000	2,448	129	41.26	24.24	963	52.39	19.07	1,954	51.69	19.35
1878.....	†102,286	2,540	118	40.27	24.83	1,018	50.23	19.90	2,012	50.84	19.67
1879.....	103,572	2,468	111	41.96	23.82	1,074	48.22	20.74	2,038	50.82	19.63
1880.....	*104,857	2,469	112	42.47	23.54	1,234	42.48	23.53	2,089	50.19	19.92
1881.....	100,017	2,779	139	39.44	25.35	1,202	45.59	21.93	2,167	50.58	19.77
1882.....	114,377	2,771	130	41.27	24.22	1,175	48.66	20.54	2,274	50.30	19.88
1883.....	†117,018	2,921	128	40.06	24.96	1,179	40.62	20.15	2,364	49.50	20.20
1884.....	117,544	2,962	121	39.68	25.20	1,149	51.15	19.55	2,276	51.64	19.86
1885.....	†119,070	2,909	140	40.53	24.53	1,000	58.91	18.56	2,210	53.43	18.72

* U. S. Census.

† State Census.

‡ City Census.

* Tenth Ward annexed May 1, 1874. Population by Census taken in May 99,008.

GENERAL SUMMARY.—CONCLUDED.

YEAR.	Population.	Living Births.	Still Births.	Of population one living birth to	Living births to each 1,000.	Marriages.	Of population married in	Persons married in each 1,000.	Deaths.	Of population in one death	Deaths in each 1,000.
1886.....	120,000	2,802	151	40.65	24.60	1,249	48.04	20.82	2,393	50.36	19.86
1887.....	121,500	2,967	136	40.95	24.42	1,338	45.40	22.02	2,644	45.95	21.76
1888.....	123,000	3,123	143	39.38	25.39	1,360	45.55	21.95	2,647	46.47	21.62
1889.....	127,000	3,194	167	39.76	25.15	1,371	46.31	21.59	2,621	50.38	19.86
1890.....	*132,146	3,349	167	39.46	25.34	1,433	46.11	21.68	2,890	45.88	21.79
1891.....	135,000	3,621	173	35.33	28.30	1,628	44.17	22.63	2,634	51.25	19.51
1892.....	138,000	3,831	191	36.02	27.76	1,694	43.20	23.10	2,964	46.66	21.41
1893.....	140,000	4,059	210	34.49	28.99	1,609	43.50	22.98	3,143	44.54	22.45
1894.....	143,000	4,026	191	35.51	28.15	1,627	46.82	21.35	2,900	49.31	20.28
1895.....	145,472	3,998	199	36.38	27.48	1,622	44.84	22.30	3,090	47.08	21.24
1896.....	150,000	4,158	219	36.07	27.72	1,699	46.90	21.32	2,963	50.62	19.75
1897.....	154,000	4,148	220	37.12	26.93	1,493	51.57	19.39	2,818	54.65	18.30
1898.....	162,000	4,267	208	37.96	26.34	1,601	50.59	19.77	2,831	55.27	18.09
1899.....	168,000	4,297	211	39.09	25.57	1,672	50.24	19.90	3,167	53.05	18.85
1900.....	*175,597	4,569	207	38.43	26.02	1,907	46.04	21.72	3,680	47.72	20.96
1901.....	178,000	4,694	216	37.92	26.37	1,875	47.47	21.07	3,444	51.68	19.35
1902.....	181,000	4,746	216	38.14	26.22	2,043	44.30	22.57	3,395	53.31	18.76
1903.....	185,000	4,935	252	37.48	26.67	2,238	41.33	24.19	3,900	47.44	21.08
49 years' average.....	103,340	2,737	135	37.75	26.48	1,164	44.39	22.53	2,069	49.95	20.02

* U. S. Census.

† State Census.

‡ City Census taken in January, 1893, 148,944.

BIRTHS AND DEATHS BY PARENTAGE.

The following recapitulatory table shows the number of births and deaths by parentage, in Providence, in each of the forty-eight years, from 1856 to 1903, inclusive. In the three years, 1863, 1864, and 1865, there was an excess of deaths over the births, in the population of American parentage:

TABLE XXIII.

YEAR.	AMERICAN PARENTAGE.					FOREIGN PARENTAGE.				
	Deaths.	Births.	Excess of Births.	Deaths under one year.	Ratio of deaths under one year to births.	Deaths.	Births.	Excess of Births.	Deaths under one year.	Ratio of deaths under one year to births.
1856.....	541	759	218	94	12.3	524	916	392	138	15.0
1857.....	523	701	178	95	13.5	402	967	565	103	10.4
1858.....	512	771	259	88	11.4	505	953	448	121	12.6
1859.....	479	659	180	63	9.5	420	934	514	107	11.4
1860.....	512	731	219	91	12.4	489	917	428	116	12.6
1861.....	538	740	202	105	14.1	513	985	472	148	15.0
1862.....	480	663	203	75	11.3	454	866	412	91	10.5
1863.....	597	528	-69	62	11.7	617	779	162	115	14.7
1864.....	649	579	-70	80	13.8	632	765	133	130	16.9
1865.....	631	546	-85	92	16.8	580	752	172	109	14.3
1866.....	513	726	213	72	9.9	523	906	383	112	12.3
1867.....	528	725	197	70	10.4	432	899	467	106	11.7
1868.....	596	882	286	111	12.5	514	984	470	116	11.7

BIRTHS AND DEATHS BY PARENTAGE.
TABLE XXIII.—CONTINUED.

YEAR.	AMERICAN PARENTAGE.					FOREIGN PARENTAGE.				
	Deaths.	Births.	Excess of Births.	Deaths under one year.	Ratio of deaths under one year to births.	Deaths.	Births.	Excess of Births.	Deaths under one year.	Ratio of deaths under one year to births.
1869.....	627	926	299	123	13.2	629	893	264	113	12.5
1870.....	642	890	248	129	14.4	621	999	378	148	14.8
1871.....	643	980	337	111	11.3	611	980	369	134	13.6
1872.....	832	1,035	203	171	16.5	771	1,171	400	186	15.8
1873.....	862	1,003	141	155	15.4	857	1,125	268	189	16.8
1874.....	885	1,217	332	169	13.8	1,102	1,563	461	233	14.9
1875.....	914	1,180	266	181	15.3	1,001	1,484	483	228	15.3
1876.....	875	1,169	294	165	14.1	980	1,462	472	223	15.2
1877.....	908	1,238	330	162	13.0	1,030	1,305	275	203	15.5
1878.....	889	1,215	326	168	13.8	1,100	1,412	312	205	14.5
1879.....	941	1,228	287	140	11.3	1,085	1,294	209	176	13.6
1880.....	920	1,252	332	175	13.9	1,160	1,375	215	206	14.9
1881.....	999	1,365	366	206	15.0	1,146	1,438	292	209	14.5
1882.....	965	1,370	405	186	13.5	1,277	1,418	141	230	16.2
1883.....	1,047	1,457	410	209	14.3	1,281	1,459	178	209	14.3
1884.....	992	1,452	460	207	14.2	1,341	1,504	263	262	17.4
1885.....	1,012	1,447	435	187	12.9	1,162	1,489	189	337	12.7

BIRTHS AND DEATHS BY PARENTAGE.

TABLE XXIII.—CONCLUDED.

YEAR.	AMERICAN PARENTAGE.					FOREIGN PARENTAGE.			
	Deaths.	Births.	Excess of Births.	Deaths under one year.	Ratio of deaths under one year to births.	Deaths.	Births.	Excess of Births.	Ratio of deaths under one year to births.
1886.....	1,029	1,469	440	201	13.6	1,326	1,491	165	238
1887.....	1,062	1,391	309	202	14.5	1,530	1,572	42	260
1888.....	1,101	1,544	443	212	13.7	1,507	1,587	80	224
1889.....	1,073	1,441	368	232	16.0	1,437	1,730	293	267
1890.....	1,195	1,513	318	289	19.1	1,682	1,904	222	348
1891.....	1,083	1,698	615	251	14.7	1,547	2,178	631	325
1892.....	1,179	1,601	422	291	18.1	1,783	2,251	468	348
1893.....	1,242	1,629	387	286	17.5	1,885	2,421	536	400
1894.....	1,156	1,613	457	287	17.7	1,740	2,385	645	361
1895.....	1,223	1,672	449	267	15.9	1,844	2,358	494	389
1896.....	1,109	1,577	468	277	17.5	1,846	2,548	702	381
1897.....	1,116	1,566	470	274	17.3	1,689	2,528	839	363
1898.....	1,083	1,648	565	285	16.1	1,845	2,526	681	386
1899.....	1,181	1,907	426	251	15.6	1,981	2,577	596	438
1900.....	1,462	1,712	310	346	20.2	2,276	2,705	429	455
1901.....	1,301	1,729	428	298	17.3	2,143	2,868	725	419
1902.....	1,282	1,789	507	314	17.6	2,112	2,836	724	446
1903.....	1,398	1,824	426	347	19.0	2,007	3,016	609	535
44 years.....	43,257	59,477	15,220	8,698	15.1	69,369	76,405	19,136	11,426
									15.1

Respectfully submitted,

CHARLES V. CHAPIN, City Registrar.

1904.]

CITY DOCUMENT.

[No. 19.]

EIGHTY-SEVENTH
QUARTERLY REPORT

OF THE

Department of Public Works

OF THE

CITY OF PROVIDENCE, R. I.

QUARTER ENDING SEPTEMBER 30, 1904.



The Providence Press:
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REPORT.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS, }
CITY HALL, PROVIDENCE, R. I., October 1, 1904. }

TO THE HONORABLE THE CITY COUNCIL:

In compliance with the requirements of Chapter 41 of the ordinances, the Commissioner of Public Works respectfully presents the eighty-seventh quarterly report of the expenditures by the several departments under his direction and control, with statements of work ordered and the condition and cost of same, for the quarter ending September 30, 1904.

WATER WORKS.

July 18th, the proposal of Fuller Iron Works to furnish and deliver at Pettaconset grate bars and cast iron pipe for the filtration plant for the sum of \$564.25, was accepted.

July 26th, the proposal of the Eastern Coal Company to furnish and deliver at Pettaconset all the New River coal required to July 1, 1905, at \$3.80 per net ton, was accepted.

August 9th, the proposal of Thomas P. Hogan & Company to remove the old building from the Randall estate at Pawtuxet for the material, and also to pay the city the sum of \$10.00, was accepted.

The average daily consumption of water during the last quarter was 13,746,585 gallons.

Water pipes were laid during the quarter as follows :

12-INCH.

In Dorrance and Westminster streets..... 735.08 feet.

8-INCH.

In Dorrance and Smith streets..... 13.63 feet.

6-INCH.

In Ashton, Clarence, Conanicut, Elton, Fisher, Gay, Helen, Murray, Payton, Pratt, Seamans, Stanwood and Smith streets; California, Everett, Indiana and Silver Lake avenues; in Berwick Lane, Cato, Clarence, George, Governor and Heather streets; Fletcher, Puritan and Poland avenues in the town of Cranston; in Calef street and Fletcher avenue in the town of Johnston, and in Allendale avenue in the town of North Providence..... 5,962.77 feet.

Total..... 6,711.48 feet.

or 1.271 + miles.

Water pipes were abandoned or removed during the quarter as follows :

6-INCH.

Removed from Dorrance street..... 10.58 feet.

or .002 + mile.

Statement of sizes and lengths of pipe laid since the commencement of the work :

36-inch	10,084.00 feet.
30-inch	61,328.30 feet.
24-inch	43,758.29 feet.
20-inch	9,626.59 feet.
16-inch	33,812.95 feet.
12-inch	105,726.32 feet.
10-inch	15,057.14 feet.
8-inch	292,709.05 feet.
6-inch	1,243,271.69 feet.

Total..... 1,815,874.33 feet.

or, 343.820 + miles.

Statement of sizes and lengths of pipe laid for the special water service for fire protection since the commencement of the work :

24-inch	4,188.58 feet.
16-inch	23,004.37 feet.
12-inch	2,215.76 feet.
Total.	29,408.71 feet.

or, 5.569 + miles.

Six fire hydrants have been set during the quarter, one in each of the following locations :

Elton street, north side, 199.5 feet east of east building line of Taber avenue.

Helen street, south side, 522.5 feet east of east building line of Eddy street.

North Main street, east side, 8 feet south of south building line of Woodbine street.

Pleasant street, north side, on west building line of Western street.

Smith street, south side, on range of west line of Elmhurst street.

Tecumseh street, east side, 3 feet north of north building line of Abbott street.

The total number of fire hydrants, exclusive of those for special service for fire protection, is now two thousand and seventeen — nineteen hundred and fourteen flush, and one hundred and three post.

The total number of fire hydrants on the special water service for fire protection is ninety-two.

During the quarter, two hundred and eighty-three water meters were set, of which number fifty-seven were to replace other meters. The use of eight meters was discontinued.

The following meters were in use at the close of the quarter :

KIND.	SIZE.									Total.
	½-in.	¾-in.	1-in.	1½-in.	2-in.	3-in.	4-in.	6-in.	8-in.	
Ball & Fitts.....	2,025	419	99	11	5					2,559
Ball & Fitts, rotary...			4	7		2	1			14
Crown.....	9,487	1,121	331	143	42	25	25	1		11,175
Empire.....	1,062	147	63	45	14	1	1			1,333
Fales, Jenks & Sons..			1							1
Gem.....					13	29	16	3		61
Thomson.....	4,456	424	75	53	22	7	7	2		5,046
Trident.....	102		1							103
Venturi.....									1	1
Worthington.....	1				1					2
	17,133	2,111	574	259	97	64	50	6	1	20,286

Two plumbers' licenses were issued during the quarter, making the total number one hundred and twenty-eight, all of which expire December 31, 1904.

Six hundred and ninety-two permits to do plumbing work were issued during the quarter.

One hundred and fifty-five applications for water were made during the quarter, making the total number twenty-six thousand five hundred and thirty-six.

The number of new service stops opened during the quarter was one hundred and ninety-three.

The total number of service stops opened to September 30, 1904, inclusive, was twenty-five thousand eight hundred fifty-nine. The number in actual use September 30, 1904, was twenty-three thousand eight hundred and sixty-nine.

The amount of bills approved on account of water works from July 1, to September 30, 1904, inclusive, was:

For maintenance, \$38,538 64

Classified as follows:

PETTACONSET PUMPING STATION.

New chimney, to furnish and erect.....	\$5,000 00	
Coal and wood.....	4,584 33	
Sundries.....	916 69	
Engineers.....	760 76	
Firemen.....	623 90	
Superintendence.....	396 39	
Oil, waste and packing.....	130 88	
Care of grounds.....	124 60	
Labor on fuel.....	120 25	
Repairs on boilers.....	85 65	
Worthington high-duty engine.....	82 21	
Corliss pumping engine and house.....	59 54	
Allis Chalmers high-duty engine, to furnish and erect.....	55 55	
Cornish engine house.....	49 40	
Barn expenses.....	49 11	
Lights.....	3 44	
Cornish pumping engine.....	3 00	
		<u>\$13,047 70</u>

SOCKANOSSET RESERVOIR.

Sundries.....	\$198 86	
Watchman.....	194 00	
		<u>392 86</u>

HOPE PUMPING STATION.

Coal and wood.....	\$1,392 52	
Firemen.....	480 35	
Engineers.....	336 98	
Sundries.....	51 43	
Lights.....	39 90	
Repairs on boilers.....	4 71	
Holly pumping engine.....	3 25	
		<u>2,309 14</u>

HOPE RESERVOIR.

Sundries.....	\$242 15	
Watchman.....	218 25	
		<u>460 40</u>

Amount carried forward..... \$16,210 10

Amount brought forward.....		\$16,210 10
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FRUIT HILL RESERVOIR.

Sundries.....	\$694 18	
Watchman.....	218 25	
		<u>912 43</u>

METER DEPARTMENT.

Water meters.....	\$3,431 43	
Setting and repairing meters.....	2,050 62	
		<u>5,482 05</u>

PIPE LINE AND SERVICE STOPS.

Repairs.....	\$4,165 43	
Superintendence—salaries.....	904 42	
Inspection of pipe line and services.....	896 57	
		<u>5,966 42</u>

PIPE YARD.

Laying water pipe.....	\$3,548 17	
Laying service pipe.....	1,447 58	
Service pipe.....	521 92	
Special castings.....	455 33	
Pig lead and tin.....	274 54	
Labor on and carting pipe.....	177 30	
Tools.....	133 89	
Pipe yard, office expenses.....	37 35	
Repairs on pipe yard buildings.....	18 47	
Stop valves.....	13 51	
Taps and stops.....	75	
		<u>6,628 81</u>

MISCELLANEOUS.

Clerks' and inspectors' salaries.....	\$1,646 21	
Barn expenses.....	679 23	
Prevention of defilement of the Pawtuxet.....	549 99	
Horses, wagons, harnesses, etc.....	194 55	
Telephone lines.....	122 68	
Car fares.....	100 00	
Real estate in Lincoln.....	27 50	
Real estate at Pawtuxet.....	12 00	
Sundries.....	3 50	
Public drinking fountains and troughs.....	3 18	
		<u>3,338 83</u>
		<u>\$38,538 64</u>

For construction,	\$10,813 41
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Charged as follows:

Installation of sand filtration plant at Pettaconset. \$10,813 41

The total expenditures to September 30,
1904, inclusive, was \$9,760,564 71

The *net* expenditure for maintenance from July 1 to
September 30, 1904, inclusive, was..... \$29,302 59

The *net* expenditure for maintenance to September 30, 1904,
inclusive, was..... \$2,100,361 37

The *net* expenditure for construction from July 1, 1902, to
September 30, 1904, inclusive, was..... \$135,478 96

The value of the water works system,
January 1, 1904, as estimated by the city
engineer, was as follows:

Pettaconset pumping station.....	\$340,694 00
Hope pumping station	126,530 12
Sockanosset, Hope and Fruit Hill reservoirs.....	706,531 26
Main lines and distribution pipes.....	2,703,862 95
Real estate in Pawtuxet and Lincoln	15,975 00
Tools and supplies.....	44,939 96
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	\$3,938,533 29

Bills deposited with the city treasurer
for collection from July 1 to September 30,
1904, inclusive, amounted to . . . \$84,038 99

As follows:

Water.....	\$74,971 20
Water meters.....	3,931 75
Setting and repairing meters.....	3,169 21
Labor and material, laying services, etc.,	1,658 03
Rent of real estate	100 50
Repairs on pipe line.....	97 30
Penalties.....	74 00
Permanently closing service stops.....	25 00
For material in old building at Pawtuxet.....	10 00
Blue prints of water distribution.....	2 00
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	\$84,038 99

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of **\$83,451 18**

As follows :

Water.....	\$74,141 13	
Water meters.....	3,881 75	
Setting and repairing meters.....	3,501 72	
Labor and material, laying services, etc.....	1,621 90	
Repairs on pipe line.....	115 68	
Rent of real estate.....	88 00	
Penalties.....	74 00	
Permanently closing service stops.....	25 00	
Blue prints of water distribution.....	2 00	
		\$83,451 18

The amount of bills approved on account of water works for the fiscal year ending September 30, 1904, inclusive, was :

For maintenance, **\$172,312 00**

Classified as follows :

PETTACONSET PUMPING STATION.

Coal and wood.....	\$20,871 82	
New chimney, to furnish and erect.....	5,000 00	
Sundries.....	3,103 64	
Engineers.....	2,778 06	
Firemen	2,328 40	
Superintendence.....	1,503 21	
Labor on fuel.....	549 28	
Care of grounds.....	512 16	
Barn expenses.....	459 49	
Oil, waste and packing.....	393 68	
Repairs on boilers.....	387 71	
Worthington high-duty engine.....	248 59	
Allis Chalmers high-duty engine, to furnish and erect.....	205 55	
Real estate.	152 88	
Corliss pumping engine and house.....	113 33	
Cornish engine house.....	80 49	
Lights	32 78	
Cornish pumping engine.....	3 00	
		\$38,724 07
Amount carried forward.....		\$38,724 07

Amount brought forward \$38,724 07

SOCKANOSSET RESERVOIR.

Watchman.....	\$732 00	
Sundries.....	511 25	
		1,243 25

HOPE PUMPING STATION.

Coal and wood.....	\$2,799 05	
Firemen.....	1,793 22	
Engineers.....	1,220 84	
Repairs on boilers.....	492 79	
Sundries.....	275 07	
Lights.....	241 24	
Oil, waste and packing.....	45 44	
Holly pumping engine.....	7 68	
		6,863 33

HOPE RESERVOIR.

Watchman	\$823 50	
Sundries.....	750 39	
		1,573 89

FRUIT HILL RESERVOIR.

Sundries.....	\$2,596 89	
Watchman	823 50	
		3,422 39

METER DEPARTMENT.

Water meters.....	\$12,259 38	
Setting and repairing meters	6,808 10	
		19,067 48

PIPE LINE AND SERVICE STOPS.

Repairs	\$16,221 13	
Superintendence — salaries	3,413 14	
Inspection of pipe line and services.....	2,987 11	
		22,621 38

PIPE YARD.

Laying water pipe.....	\$16,228 32	
Cast iron water pipe	11,629 38	
Special castings.....	6,024 52	
Laying service pipe.....	4,627 42	
Stop valves	3,393 31	

Amounts carried forward.....	\$44,902 95	\$83,515 79
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Amounts brought forward.....	\$44,902 95	\$93,515 79
Fire hydrants, boxes and covers.....	3,227 70	
Service pipe.....	1,632 72	
Taps and stops.....	1,297 76	
Pig lead and tin.....	1,026 63	
Tools.....	933 40	
Labor on and carting pipe.....	610 11	
Pipe yard, office expenses.....	182 57	
Repairs on pipe yard buildings.....	23 58	
		53,837 42

MISCELLANEOUS.

Town of Cranston, tax.....	\$7,077 69	
Clerks' and inspectors' salaries....	6,211 52	
Thawing out water pipe.....	4,218 62	
Barn expenses.....	2,523 98	
Prevention of defilement of the Pawtuxet.....	2,199 96	
Horses, wagons, harness, etc.....	993 05	
Telephone lines.....	506 22	
Town of North Providence, tax.....	400 00	
Car fares.....	315 00	
Inspection of water pipe with reference to electro- lysis.....	182 13	
Sundries.....	147 74	
Real estate at Pawtuxet.....	79 50	
Transferring water service records to card system.....	41 05	
Public drinking fountains and troughs.....	34 83	
Real estate in Lincoln.....	27 50	
		24,968 79
		\$172,312 00

For construction, \$72,675 10

Charged as follows:

Installation of sand filtration plant at Pettaconset, \$72,675 10

SEWERS.

During the quarter ending September 30, 1904, three hundred and thirty-seven permits were issued to drain-layers—two hundred and one for new work and one hundred and thirty-six for extensions and repairs of drains.

Four drain-layers' licenses were issued during the quarter, making the total number one hundred and forty-six, all of which expire December 31, 1904.

July 26th, the proposal of the Eastern Coal Company to furnish and deliver all the New River coal required at the Ernest street station to July 1, 1905, for the sum of \$3.55 per net ton, and to furnish all New River coal required by other branches of the sewer department for the same period, for the sum of \$3.15 per net ton for run of mine, and \$3.65 per net ton for lump, at their yard, was accepted.

July 29th, an assessment for the cost of constructing a sewer in Hamilton, Irving and Melrose streets was certified to the city treasurer amounting to \$50.00.

August 2d, the proposal of James C. Goff to furnish and deliver at the city yard, one cargo of Sanford bricks at \$8.50 per thousand was accepted.

September 9th, the proposal of J. Spencer Turner Company to furnish and deliver 10,000 yards of filter cloth at 20½ cents per yard, was accepted.

September 22d, contracts for the construction of the following sewers were awarded and subsequently executed, namely:

[The amounts given below are what are estimated will be paid the contractors for labor, and do not include the cost of inspection and materials or rock excavation.]

TO CHARLES CRANKSHAW.

No. of resolution. Date of approval.

302.	Sept. 18, 1904,	<i>Nebraska street, from near Rugby to Eddy,</i>	\$338 30
300.	" " "	<i>Everett avenue, from Arlington to Elmgrove,</i>	1,044 60

TIMOTHY F. LYONS.

No. of resolution. Date of approval.

301. Sept. 18, 1904, *Eighth street, from near
Summit avenue to North
Main street, . . .* \$2,561 50

During the quarter, the construction of the following
sewers was completed, namely:

No. of resolution. Date of approval.

Date of completion.

319. Sept. 18, 1903, *Elton street, from a
point 100 feet east of
Taber avenue to Elm-
grove, . . .* July 25, 1904.
320. " " " *Vandewater street, from
Douglas avenue to
Branch, . . .* Aug. 6, 1904.
322. " " " *Dudley street, from Pearl
and Plain to the head of
the city dock, . . .* Aug. 4, 1904.
56. Feb. 2, 1904, *Ninth and Pettis streets,* Aug. 24, 1904.
203. June 7, 1904, *Tanner, Laban, and
Conanicut streets, . . .* Sept. 13, 1904.

Work upon the following sewers was in progress at the
close of the quarter, namely:

No. of resolution. Date of approval.

58. Feb. 2, 1904, *Thayer, Manning and Brook streets,
(storm sewer).*
60. " " " *Alverson, Eastwood, Laurel Hill and
Hartford avenues.*
201. June 7, 1904, *Barre street, from Grove to about 1,300
feet northerly; also westerly through
right of way across tracks of N. Y.,
N. H. and H. R. R. Company to Harris
avenue.*

No. of resolution. Date of approval.

202. June 7, 1904, *Veazie street, from Douglas avenue to Branch.*
219. June 17, 1904, *Exchange place, from Exchange street to the river.*
302. Sept. 13, 1904, *Nebraska street, from near Rugby to Eddy.*

Work upon the following sewers, completing the work ordered by the city council, had not commenced September 30, 1904, namely:

No. of resolution. Date of approval.

53. Feb. 2, 1904, *Admiral street, from Hillwood to end of present sewer in Admiral.*
300. Sept. 13, 1904, *Everett avenue, from Arlington to Elmgrove.*
301. " " " *Eighth street, from a point 50 feet west of Summit avenue to North Main street.*

The amount of bills approved on account of sewers from July 1 to September 30, 1904, inclusive, was as follows:

FOR CONSTRUCTION.

Regular appropriation.....	\$28,880 55	
Improved sewerage appropriation.	1,337 00	
		\$30,217 55

Charged as follows:

Material.....	\$3,337 45
Contract reservations.....	1,319 00
Additional catch-basins.....	1,184 67
Sundries.....	875 12
Testing cement.....	279 50
Tools.....	4 00
Sewer in Algonquin street, from Crescent to Holmes	5 25
Sewer in Alverson, Eastwood, Laurel Hill and Hartford avenues	2,154 34
Sewer in Barre street, from Grove to about 1,300 feet northerly; also westerly through right of way across tracks of N. Y., N. H. and H. R. R. Company to Harris avenue	1,961 56
Amount carried forward.....	\$11,120 89

Amount brought forward.....	\$11,120 89
Sewer in Chalkstone avenue from Lisbon street to River avenue.....	5 25
Sewer in Dudley street, from junction of Pearl and Plain to Eddy street, and across land of the city from Eddy street to the head of the city dock.....	4,323 50
Sewer in Elton street, from a low point 100 feet east of Taber avenue to Elmgrove.....	639 70
Sewer in Exchange place, from Exchange street to the river	1,346 45
Sewer in Fairview and Pemberton streets.....	84 00
Sewer in Nebraska street, from Rugby to Eddy....	5 47
Sewer in Ninth and Pettis streets.....	1,311 10
Sewer in Reservoir avenue, west side, from Crescent street to Algonquin.....	7 50
Sewer in Rosedale street, from Messer to Ellery...	5 35
Sewer in Tanner, Laban and Conanicut streets....	1,077 74
Sewer in Thayer, Manning and Brook streets.....	7,504 48
Sewer in Vandewater street, from Douglas avenue to Branch.....	2,409 14
Sewer in Veazie street, from near Douglas avenue to Branch.....	336 48
Sewer in Washington avenue, from Virginia to Eddy street	7 50
Sewer in West Park and Bath streets.....	15 00
Sewer in Seekonk Division, Section 30.....	18 00
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	\$30,217 55

For maintenance, \$31,967 00

Classified as follows:

Cleaning basins and sewers.....	\$7,823 56
Repairing basins and sewers.....	4,109 12
Cleaning and repairing old drains.....	1,155 74
Inspection of connections.....	728 36
Sundries.....	691 26
Tools.....	575 14
Salary, superintendent.....	471 14
Barn expenses.....	453 91
Horses, wagons, harnesses, etc.....	204 08
Cleaning private connections.....	61 60
Telephone lines.....	35 93
Office expenses.....	17 45
Repairs on gate house.....	10 14
Car fares.....	10 00
Filling cisterns, etc.....	2 00
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Amount carried forward.....	\$16,349 43

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Amount brought forward..... \$16,349 43

ERNEST STREET STATION.

Coal and wood	\$992 15
Repairs on engines.....	969 97
Engineers.....	877 32
Cleaning screens.....	707 36
Firemen.....	431 50
Cleaning and repairing pumps.....	402 56
Care of grounds	132 20
Supplies.....	112 06
Repairs on buildings.....	37 82
Lights.....	30 01
Care of buildings	15 31
Repairs on boilers.....	1 83

SEWAGE PRECIPITATION TANKS.

Chemicals	5,939 13
Labor in sludge disposal.....	2,643 11
Labor on sewage precipitation.....	1,723 57
Electrical power.....	472 25
Fuel.....	310 29
Miscellaneous supplies.....	176 92
Repairs on machinery.....	166 85
Lights.....	17 16
Care of grounds.....	4 20
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	\$31,967 00

The net expenditure for construction of sewers to September 30, 1904, inclusive, was..... \$7,597,075 14

The net expenditure for maintenance of sewers to September 30, 1904, inclusive, was..... \$1,127,275 82

Bills deposited with the city treasurer for collection from July 1 to September 30, 1904, inclusive, amounted to . . . \$1,295 26

As follows:

Miscellaneous work.....	\$379 58
Cleaning private connections	62 25
Pumping out cellars, etc.....	54 45
Sewer material.....	683 80
Relaying railroad track in the city yard.....	75 03
Laying drains to curbstones.....	40 15
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	\$1,295 26

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of \$1,191 14

As follows:

Miscellaneous work.....	\$391 35
Cleaning private connections.....	55 25
Pumping out cellars.....	20 59
Sewer material.....	683 80
Laying drains to curbstone.....	40 15
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	\$1,191 14

The amount of bills approved on account of sewers for the fiscal year ending September 30, 1904, inclusive, was as follows:

FOR CONSTRUCTION.

Regular appropriation.....	\$126,491 09
Improved sewerage appropriation.....	32,563 83
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	\$159,054 92

Charged as follows:

Material.....	\$32,189 33
Contract reservations.....	13,893 43
Sundries.....	3,076 35
Additional catch-basins.....	2,233 30
Testing cement.....	954 37
Tools.....	32 45
Sewer in Algonquin street, from Crescent to Holmes	794 57
Sewer in Alverson, Eastwood, Laurel Hill and	
Hartford avenues.....	4,018 97
Sewer in Atwells avenue, Pine and Broad streets..	4,789 45
Sewer in Barnes street, from low point in said street	
to Thayer.....	55 08
Sewer in Barre street, from Grove to about 1,300	
feet northerly, also westerly through right of	
way across tracks of N. Y., N. H. and H. R. R.	
Company to Harris avenue.....	1,961 56
Sewer in Branch avenue, from Douglas to Veazie	
street.....	3,243 13
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Amount carried forward.....	\$67,241 99

Amount brought forward.....	\$67,241 99
Sewer in Branch avenue, from near Langdon street to near the Moshassuck river.....	3,559 14
Sewer in Chalkstone avenue, from Lisbon street to River avenue.....	819 66
Sewer in Charles street, from near Amboy to Branch avenue.....	12 00
Sewer in Dudley street, from junction of Pearl and Plain to Eddy, and across land of the city from Eddy street to the head of the city dock.....	21,972 40
Sewer in Elton street, from a low point 100 feet east of Taber avenue to Elmgrove	639 70
Sewer in Exchange place, from Exchange street to the river.....	1,346 45
Sewer in Fairview and Pemberton streets.....	1,136 69
Sewer in Hilton street, from Bogman to Willard avenue, and in California avenue, from Virginia to Eddy street.....	1,997 16
Sewer in Merino avenue, from Manton to near Merino bridge.....	5,359 62
Sewer in Nebraska street, from Rugby to Eddy....	5 47
Sewer in Ninth and Pettis streets.....	1,531 71
Sewer in North Main street, east side, from Stenton avenue to Third street.....	3,616 63
Sewer in Reservoir avenue, west side, from Crescent street to Algonquin.....	867 07
Sewer in Rosedale street, from Messer to Ellery...	857 58
Sewer in Silver Spring street and Northup avenue.	10
Sewer in Tanner, Laban and Conanicut streets....	1,106 29
Sewer in Thayer, Manning and Brook streets	9,057 31
Sewer in Vandewater street, from Douglas avenue to Branch.....	6,399 05
Sewer in Veazie street, from near Douglas avenue to Branch.....	336 48
Sewer in Washington avenue, from Virginia to Eddy street	1,385 22
Sewer in Wayland, Cole and University avenues..	3,714 58
Sewer in West Park and Bath streets.....	3,562 13
Sewer in Weymouth street and Lloyd avenue.....	2,979 51
Sewer in Branch avenue, from Veazie street to the river near Vandewater street.....	4 50
Sewer in Moshassuck Division, Section 27.....	2,523 36
Sewer in Moshassuck Division, Section 28.....	1,060 79
Sewer in Seekonk Division, Section 29.....	3 25
Sewer in Seekonk Division, Section 30.....	15,959 08
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	\$159,054 92

For Maintenance, \$118,713 31

Classified as follows:

Cleaning basins and sewers.....	\$27,098 25
Repairing basins and sewers.....	14,413 11
Cleaning and repairing old drains.....	4,091 50
Inspection of connections.....	2,702 08
Tools.....	2,649 30
Barn expenses.....	1,896 20
Salary, superintendent.....	1,777 71
Sundries	1,529 37
Horses, wagons, harnesses, etc.....	1,034 40
Use of water.....	900 00
Cleaning private connections.....	197 60
Office expenses.....	192 75
Telephone lines.....	137 89
Filling cisterns, etc.....	66 72
Car fares.....	60 00
Repairs on buildings, sewer maintenance yard....	47 45
Repairs on gate house.....	24 95

ERNEST STREET STATION.

Coal and wood.....	5,357 19
Engineers	3,275 98
Cleaning screens.....	2,553 39
Firemen.....	1,709 37
Cleaning and repairing pumps.....	1,543 95
Repairs on engines.....	1,061 80
Supplies.....	480 87
Care of grounds.....	370 85
Lights.....	120 35
Repairs on boilers.....	56 26
Care of buildings.....	49 64
Repairs on buildings.....	47 12

SEWAGE PRECIPITATION TANKS.

Chemicals.....	21,335 14
Labor in sludge disposal.....	9,922 47
Labor on sewage precipitation.....	6,252 79
Miscellaneous supplies.....	2,151 46
Electrical power.....	1,912 00
Fuel.....	910 71
Repairs on machinery	547 66
Lights.....	112 20
Repairs on buildings.....	93 60
Repairs on sewage precipitation tanks.....	35 03
Care of grounds.....	4 20

\$118,713 31

HIGHWAYS.

Four permits to open streets were issued during the quarter.

July 26th, the proposal of the Eastern Coal Company to furnish at their yard all the New River or Pocahontas coal required to July 1st, 1905, was accepted at the following prices: New River—run of mine \$3.15, lump \$3.65; Pocahontas—run of mine \$3.30, lump \$3.80, per net ton.

July 28th, the proposal of Frank A. Gammino to furnish and deliver material in Adelaide avenue, west of the railroad bridge, for the sum of 44 cents per cubic yard, was accepted.

August 4th, the proposal of the Connecticut Trap Rock Quarries to furnish and deliver in the city yard 2,000 tons of trap rock at \$1.20 per ton, was accepted and the order subsequently increased to 4,000 tons.

August 5th, a schedule of curbing bills remaining unpaid was certified to the assessors of taxes for collection.

During the quarter, the following work was completed :

SIDEWALKS CURBED AND GUTTERS PAVED.

Date of order.

- | | | |
|----------|-------|---|
| June 18, | 1903, | <i>Bath street, from Orms to Calverley.</i> |
| “ | “ | <i>University avenue, from Elmgrove to Slater.</i> |
| Jan. 21, | 1904, | <i>Elton street, from Taber avenue to Elmgrove.</i> |
| April | “ | <i>Algonquin street, from Crescent to Reservoir avenue.</i> |
| May 19, | “ | <i>Rosedale street, from Messer to Ellery.</i> |
| “ | “ | <i>Thorne street, from Roanoke to Belmont avenue.</i> |
| “ | “ | <i>Fairview street, from Carleton to Pemberton.</i> |

The following work, ordered by the board of aldermen and city council, had not commenced September 30, 1904, namely:

SIDEWALKS CURBED AND GUTTERS PAVED.

Date of order.

June 16, 1904, *Barre street, from Ridge to Bell.*

“ “ “ *Bell street, from Barre to Eden.*

Sept. 15, “ *Nebraska street, from Eddy to Rugby.*

Bills approved on account of highways from July 1 to September 30, 1904, inclusive, amount to \$112,198 95

Classified as follows:

Repairs on unpaved streets.....	\$30,597 25	
Cleaning streets.....	20,686 53	
Crushed stone — material and labor.....	17,633 59	
Stone — paving and crosswalk.....	8,360 63	
Repairs on paved streets.....	8,275 06	
Blacksmith and wheelwright shop.....	2,895 70	
Barn expenses	2,830 46	
Tools, implements, etc.....	1,528 84	
Labor on material.....	1,341 41	
Watering streets.....	1,279 08	
Steam rollers — repairs and supplies.....	737 88	
Repairs on stone crushers.....	602 01	
Superintendent's salary.....	471 14	
Building driveways, etc.....	419 94	
Horses, wagons, harnesses, etc.....	191 15	
Watchman at city yard.....	168 29	
Sundries.....	150 01	
Office expenses, city yard.....	62 16	
Car fares.....	25 00	
Telephone lines.....	5 35	
Repairs on buildings, highway yard.....	1 00	
Fencing streets — material and labor.....	70	
		\$98,261 18

NEW WORK — BUILDING AND REBUILDING STREETS, ETC.

SIDEWALKS CURBED AND GUTTERS PAVED.

<i>Algonquin street, from Crescent to Reservoir avenue</i>	\$3,653 79	
<i>Bath street, from Orms to Calvery.....</i>	2,984 39	
<i>Elton street, from Taber avenue to Elmgrove.....</i>	1,234 35	
Amounts carried forward.....	\$7,872 53	\$98,261 18

REPORT OF THE DEPARTMENT OF PUBLIC WORKS. 23

Amounts brought forward.....	\$7,872 53	\$98,261 18
<i>Fairview street</i> , from Carleton to Pemberton.....	1,454 92	
<i>Rosedale street</i> , from Messer to Ellery.....	1,615 57	
<i>Seventh street</i> , from Summit avenue to North Main street.....	568 31	
<i>Thorne street</i> , from Roanoke to Belmont avenue...	605 24	
<i>Troy street</i> , from Westminster to Oak.....	153 76	
<i>University avenue</i> , from Elmgrove to Slater.....	1,667 44	
		13,937 77
		\$112,198 95

Bills deposited with the city treasurer for collection from July 1 to September 30, 1904, inclusive, amounted to . . . \$4,026 95

As follows:

Labor and material.....	\$3,066 92
Building driveways, etc.....	354 51
Boarding horses for other departments.....	216 22
Street sweepings.....	167 50
Blacksmith and harness work for other departments.....	87 90
Manure from barn.....	69 00
Use of steam rollers.....	60 00
Empty oil barrels.....	4 90
	\$4,026 95

During the quarter, coupons from bills collected have been returned by the city treasurer and receipted for to the amount of \$3,984 28

As follows:

Labor and material.....	\$2,694 74
Blacksmith and harness work for other departments.....	471 59
Building driveways, etc.....	410 33
Boarding horses for other departments.....	216 22
Street sweepings.....	117 50
Manure from barn.....	69 00
Empty oil barrels.....	4 90
	\$3,984 28

Bills approved on account of highways
for the fiscal year ending September 30,
1904, inclusive, amounted to:

Regular appropriation.....	\$325,770 78	
Special appropriation.....	870 19	
		<u>\$326,640 97</u>

Classified as follows:

Cleaning streets.....	\$57,973 87	
Repairs on unpaved streets.....	56,675 81	
Crushed stone—material and labor.....	51,012 55	
Removing snow and ice.....	21,135 62	
Repairs on paved streets.....	19,401 91	
Stone—paving and crosswalk.....	16,038 95	
Barn expenses.....	11,488 06	
Blacksmith and wheelwright shop.....	10 200 36	
Repairs on stone crushers.....	4,833 52	
Steam rollers—repairs and supplies.....	4,163 74	
Tools, implements, etc.....	4,072 86	
Labor on material.....	3,346 17	
Watering streets.....	2,243 64	
Repairs on buildings, highway yard.....	1,995 52	
Horses, wagons, harnesses, etc.....	1,866 25	
Superintendent's salary.....	1,777 71	
Building driveways, etc.....	1,234 79	
Watchman at city yard.....	627 43	
Sundries.....	564 17	
Office expenses, city yard.....	238 10	
Fencing streets—material and labor.....	137 92	
Car fares.....	80 00	
Telephone lines.....	21 40	
		<u>\$271,130 35</u>

NEW WORK — BUILDING AND REBUILD-
ING STREETS, ETC.

SIDEWALKS CURBED AND GUTTERS PAVED.

<i>Algonquin street</i> , from Crescent to Reservoir avenue	\$4,048 34	
<i>Bath street</i> , from Orms to Calverley.....	4,309 91	
<i>Cole avenue</i> , from Lloyd to Irving.....	1,270 83	
<i>Croyland road</i> , from Oxford street to Sayles.....	883 50	
<i>Douglas avenue</i> , from Chad Brown street to Ad- miral.....	870 19	
<i>Elton street</i> , from Taber avenue to Elmgrove.....	1,234 33	

Amounts carried forward.....	\$12,617 12	<u>\$271,130 35</u>
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Amounts brought forward.....	\$12,617 12	\$271,130 35
<i>Fairview street</i> , from Carleton to Pemberton.....	1,454 92	
<i>Hilton street</i> , from Willard avenue to Bogman street	1,249 57	
<i>Morris avenue</i> , from Cypress street to Olney.....	6,589 10	
<i>Promenade street</i> , north side, from Leland to Cal- verly.....	980 74	
<i>Regent avenue</i> , from Harold street to River avenue.	1,667 91	
<i>Rosedale street</i> , from Messer to Ellery.....	1,615 57	
<i>Sayles street</i> , from Gordon avenue to Prairie.....	1,126 85	
<i>Seventh street</i> , from Summit avenue to North Main street.....	3,350 17	
<i>Silver Spring street</i> , from Ashton to Northup ave- nue.....	706 98	
<i>Thorne street</i> , from Roanoke to Belmont avenue...	606 24	
<i>Troy street</i> , from Westminster to Oak.....	2,079 85	
<i>University avenue</i> , from Elmgrove to Slater.....	3,192 70	
<i>Wayland avenue</i> , from Lloyd to Irving.	1,570 22	
		38,806 94

PAVE WITH GRANITE BLOCKS, ASPHALT, OR BITUMINOUS
MACADAM.

<i>Branch avenue</i> , from Veazie street to bridge near Vandewater street.....	11,394 50
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TO GRADE AND PUT IN GOOD CONDITION.

<i>Hastings and Ledge streets</i>	5,309 18
	\$326,640 97

SIDEWALKS AND CURBING.

Bills approved on account of sidewalks
and curbing from July 1 to September 30,
1904, inclusive, amounted to . . . \$9,910 75

Charged as follows :

Granite curbing.....	\$6,199 36
Repairing sidewalks and gutters.....	2,874 07
Concreting sidewalks.....	837 30
	\$9,910 75

Curbing bills deposited with the city
treasurer for collection from July 1 to
September 30, 1904, inclusive, amounted to \$911 85

During the quarter, coupons from curbing bills have been returned by the city treasurer and receipted for to the amount of . . . \$1,412 67

Bills approved on account of sidewalks and curbing for the fiscal year ending September 30, 1904, inclusive, amounted to . \$23,451 73

Charged as follows :

Granite curbing.....	\$15,113 42
Repairing sidewalks and gutters.....	4,295 91
Concreting sidewalks.....	4,042 40
	<hr/>
	\$23,451 73

CITY ENGINEER.

Bills approved on account of the city engineer's department from July 1 to September 30, 1904, inclusive, amounted to \$13,330 59

Charged as follows :

Salary — city engineer.....	\$1,125 00
Salaries of assistants.....	10,564 55
Salaries of clerks.....	842 42
Car fares	403 85
Supplies — drawing material, etc.....	367 33
Telephone lines.....	23 49
Meteorological instruments and repairs.....	1 50
Sundries.....	1 45
Instruments and repairs.....	1 00
	<hr/>
	\$13,330 59

Bills approved for account of city engineer's department, for the fiscal year ending September 30, 1904, inclusive, amounted to \$48,780 57

Charged as follows:

Salary—city engineer.....	\$4,500 00
Salaries of assistants.....	39,025 54
Salaries of clerks.....	3,176 95
Car fares.....	1,011 75
Supplies, drawing material, etc.....	936 95
Telephone lines.....	72 34
Instruments and repairs.....	27 09
Carriage hire.....	13 13
Meteorological instruments and repairs.....	8 77
Sundries.....	8 05
	<hr/>
	\$48,780 57

BRIDGES.

July 15th, the proposal of Charles Crankshaw to furnish the labor and material for extending the westerly abutment of the Adelaide avenue bridge, was accepted.

July 18th, the proposal of Charles Crankshaw to build a culvert across Allens avenue at Burgess cove, was accepted and a contract subsequently executed. Amount \$1,395.70.

July 26th, the proposal of the Eastern Coal Company to furnish and deliver all the New River or Pocahontas coal required to July 1, 1905, at \$4.00 and \$4.15 per net ton, respectively, was accepted.

August 23rd, the proposal of Edward W. Everson to build brick arches and level up with concrete the floors of the post office bridge, was accepted and a contract subsequently executed. Amount \$5,255.00.

September 1st, the proposal of James A. Potter & Company for furnishing and delivering 225,000 feet of southern pine plank on the city wharf at \$23.00 per thousand, was accepted.

The following work, ordered by the city council, was in progress at the end of the quarter, namely :

No. of resolution. Date of approval.

411. Dec. 19, 1902, *Exchange bridge on its northerly side ; bridge over the river between Exchange and Burnside bridges ; river walls between Burnside and Exchange bridges.*
232. June 21, 1904, *Build culvert across Allens avenue at outlet to Burgess cove, and the approaches thereto.*

Bills approved on account of bridges from
July 1 to September 30, 1904, inclusive,
amounted to

\$6,973 05

Charged as follows :

Acorn street bridge.....	\$6 10
Adelaide avenue bridge, extension of abutments..	745 42
Barn expenses.....	113 52
Building at city yard.....	26
Culvert across Allens avenue at Burgess cove—to build....	1,719 16
Crawford street bridge.....	4 20
Eagle street bridge.....	62 29
Gaspee street bridge.....	16 89
Geneva bridge.....	1 10
Horses, wagons, harnesses, etc.....	45 96
Lumber, hardware, etc.....	96 08
Manton avenue bridge.....	25 33
Point street bridge.....	230 67
Red bridge.....	722 73
Rent of keeper's house— Washington bridge.....	36 00
Repairs on city wharf.....	12 72
Salaries — Point street bridge.....	1,074 75
Salaries — Red bridge.....	621 61
Salaries — Washington bridge.....	621 06
Smith street bridge.....	38 21
Sundries.....	79 63
Telephone lines.....	2 68
Tools.....	92 48
Veazie street bridge.....	33 45
Wanskuck bridge.....	28 64
Washington bridge.....	171 32
Weybosset bridge.....	370 79

\$6,973 05

Bills deposited with the city treasurer
for collection from July 1 to September 30,
1904, inclusive, amounted to \$91 78

As follows :

Work for The Rhode Island Company on Red bridge.....	\$90 73
Old lumber.....	1 00
	<hr/>
	\$91 73

During the quarter, coupons from bills
collected have been returned by the city
treasurer and receipted for to the amount of \$91 78

As follows :

Work for The Rhode Island Company on Red Bridge.....	\$90 73
Old lumber.....	1 00
	<hr/>
	\$91 73

Bills approved on account of bridges for
the fiscal year ending September 30, 1904,
inclusive, amounted to \$20,852 45

Charged as follows:

Acorn street bridge.....	\$13 00
Adelaide avenue bridge, extension of abutments..	745 42
Atwells avenue bridge.....	33 64
Barn expenses.....	474 41
Branch avenue bridge.....	16 00
Branch avenue culvert.....	19 61
Building at city yard.....	5 84
Burnside bridge.....	12 18
Car fares.....	25 15
Cemetery street bridge.....	29 33
Charles street railroad bridge.....	33 98
Crawford street bridge.....	316 83
Culvert across Allens avenue at Burgess cove—to build.....	1,719 16
Delaine street bridge.....	13 70
Eagle street bridge.....	71 84

Amount carried forward.....	\$3,530 09
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Amount brought forward.....	\$3,530 09
Exchange bridge.....	29 84
Francis street bridge.....	129 71
Gaspee street bridge.....	26 68
Geneva bridge.....	106 40
Hawkins street bridge.....	8 55
Horses, wagons, harnesses, etc.....	93 16
Lumber, hardware, etc.....	632 20
Manton bridge.....	60
Manton avenue bridge.....	292 10
Merino bridge.....	163 15
Mill street bridge.....	19 62
Nash lane bridge.....	19 24
Park street bridge.....	6 44
Point street bridge.....	2,540 67
Promenade street bridge.....	68 78
Randall street bridge.....	21 24
Red bridge.....	1,496 10
Rent of keeper's house—Washington bridge.....	144 00
Repairs on city wharf.....	12 72
Salaries—Point street bridge.....	3,984 50
Salaries—Red bridge.....	2,170 86
Salaries—Washington bridge.....	2,168 10
Smith street bridge.....	48 45
Smithfield avenue bridge.....	7 90
Stevens street bridge.....	6 01
Sundries.....	777 50
Telephone lines.....	10 72
Tools.....	431 61
Valley street bridge — north span.....	83 84
Valley street bridge — south span.....	62 70
Veazie street bridge.....	79 55
Wanskuck bridge.....	40 06
Washington bridge.....	932 01
Washington row bridge.....	18 28
West river street bridge.....	46 35
Weybosset bridge.....	618 44
Whelden street bridge.....	4 28
	<hr/>
	\$20,852 45

Bills approved for account of building the Merino bridge, from July 1 to September 30, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of

\$545 63

Bills approved for account of building the Merino bridge for the fiscal year ending September 30, 1904, inclusive, amounted to \$12,701 08

Bills approved for account of building the river walls between the Burnside and Exchange bridges, from July 1 to September 30, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of \$7,480 16

Bills approved for account of building the river walls between the Burnside and Exchange bridges, for the fiscal year ending September 30, 1904, inclusive, amounted to \$35,940 82

PUBLIC LIGHTS.

Bills approved on account of the public lights from July 1 to September 30, 1904, inclusive, amounted to \$70,722 76

Charged as follows:

Arc lights.....	\$51,797 90
Incandescent lights.....	12,532 76
Welsbach lights.....	6,166 84
Salaries.....	207 86
Gas for street lights.....	17 40
	<hr/>
	\$70,722 76

Bills deposited with the city treasurer for collection (for removing gas posts), from July 1 to September 30, 1904, inclusive, amounted to \$5 00

During the quarter, coupons from bills collected (for removing gas posts), have been returned by the city treasurer and receipted for to the amount of . . . \$5 00

Bills approved on account of the public lights for the fiscal year ending September 30, 1904, inclusive, amounted to . . . \$279,846 72

Charged as follows :

Arc lights.....	\$205,553 98
Incandescent lights.....	48,286 17
Welsbach lights.....	24,155 74
Salaries ..	1,484 29
Gas for street lights.....	206 14
Setting and removing gas posts.....	114 42
Barn expenses.....	27 50
Horses, wagons, harnesses, etc.....	13 48
Car fares.....	5 00
	<hr/>
	\$279,846 72

PUBLIC WORKS OFFICE.

Bills approved on account of the public works office from July 1 to September 30, 1904, inclusive, amounted to . . . \$5,280 44

Charged as follows :

Salaries of commissioner and secretary.....	\$1,850 00
Salaries of office assistants.....	3,180 62
Office supplies.....	231 53
Telephone lines.....	18 29
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	\$5,280 44

Bills approved on account of the public works office for the fiscal year ending September 30, 1904, inclusive, amounted to . . . \$20,820 80

Charged as follows :

Salaries of commissioner and secretary.....	\$7,400 00
Salaries of office assistants.....	12,399 44
Office supplies.....	830 26
Telephone lines.....	188 10
Carriage hire.....	3 00
	<hr/>
	\$20,820 80

CONTINGENCIES.

Bills approved for the inspection of electric wires for the fiscal year ending September 30, 1904, inclusive, have been paid from the appropriation for contingencies to the amount of \$16 50

ABOLISHING GRADE CROSSING AT GROVE STREET, ETC.

July 21st, the proposal of Frederick E. Shaw for grading and constructing retaining walls on Barre street, was accepted and a contract subsequently executed. Amount of contract \$35,406.10.

August 11th, the proposal of Earl D. F. Titus to furnish labor and material for raising the house of Peter F. Carr, in connection with the work of building Barre street, for the sum of \$490.00, was accepted.

August 11th, the proposal of Elizabeth J. Lalime to furnish labor and material for raising the house of Thomas F. West on Barre street, for the sum of \$414.00, was accepted.

The proposal of Frank A. Gammino to build a sewer in Bell and Eiswald streets, was accepted. The estimated amount of the work was \$287.40.

August 29th, the proposal of Frank A. Gammino to furnish labor and material for raising the houses of George N.

Whitford and Timothy O'Riley on Barre street, for the sums of \$320.00 and \$510.00, respectively, was accepted.

September 8th, the proposal of Frank A. Gammino to furnish labor and material for raising the house of Mary Dunlavey on Barre street, for the sum of \$355.00, was accepted.

The following work, ordered by the Board of Aldermen, was in progress September 30, 1904:

Date of order.

June 7, 1904, *Building retaining walls, etc., on Barre street.*

Bills approved for account of building retaining walls. etc., on Barre street, from July 1 to September 30, 1904, inclusive, have been paid from the special appropriation for that work, to the amount of . . .	\$3,874 18
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Bills approved for account of building retaining walls etc., on Barre street for the fiscal year ending September 30, 1904, inclusive, amounted to	\$3,950 37
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WALTER F. SLADE,

Commissioner.

